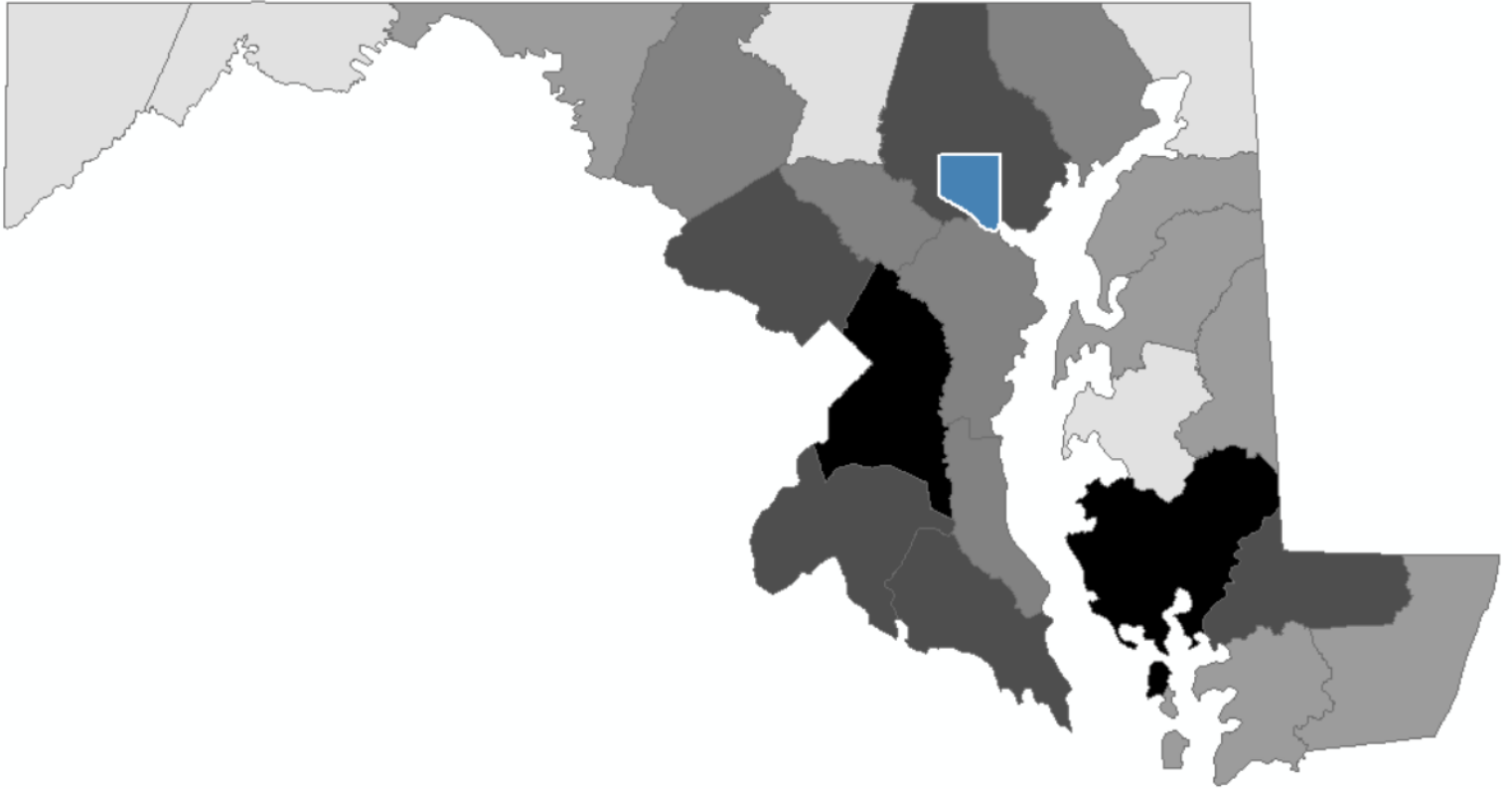


2016



Baltimore City HIV Annual Epidemiological Profile

Data reported through June 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
Maryland Department of Health
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2017. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2016 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2016-12/31/2016, as reported by name through 6/30/2017.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2017 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2016 as reported by name through 6/30/2017.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14%. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2017.

Population data by sex, age, and race/ethnicity are from the July 1, 2016 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2015 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2015 HIV Surveillance Supplemental Report published July 2017. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the

hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates.

MDH Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

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Help is available in your language: 410-767-5227 (TTY: 1-800-735-2258). These services are available for free.

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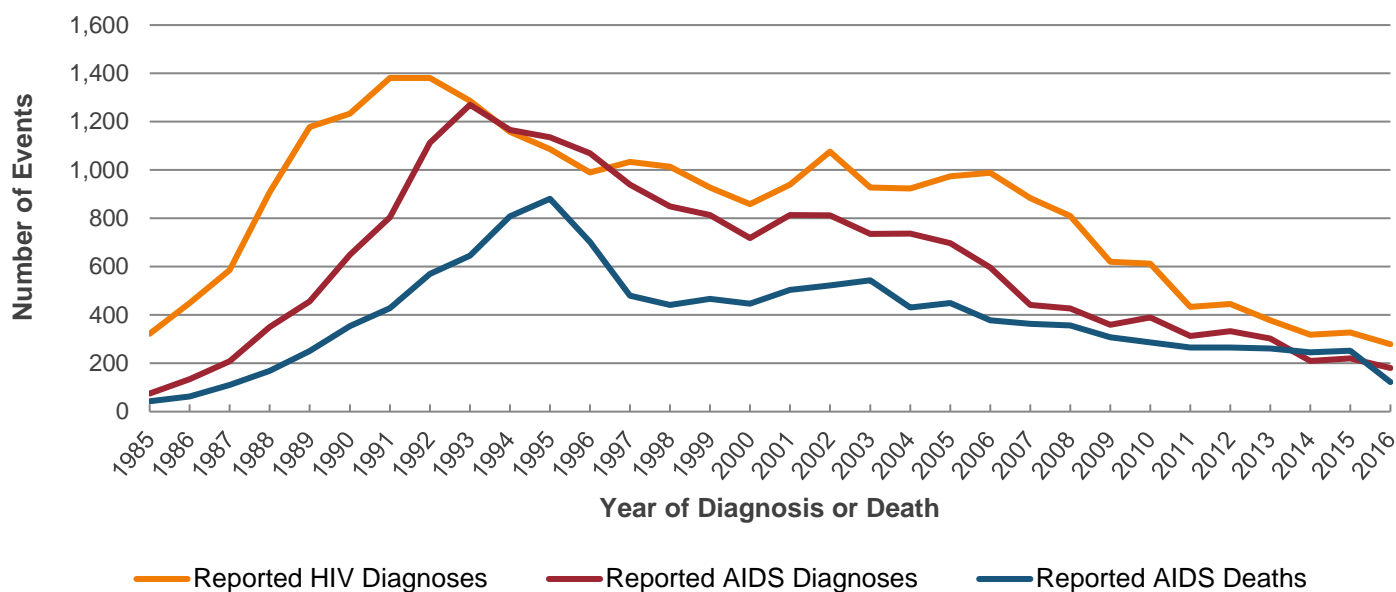
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Section II – Trends 1985-2016

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2016, Reported through 6/30/2017

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2016 as Reported through 6/30/2017



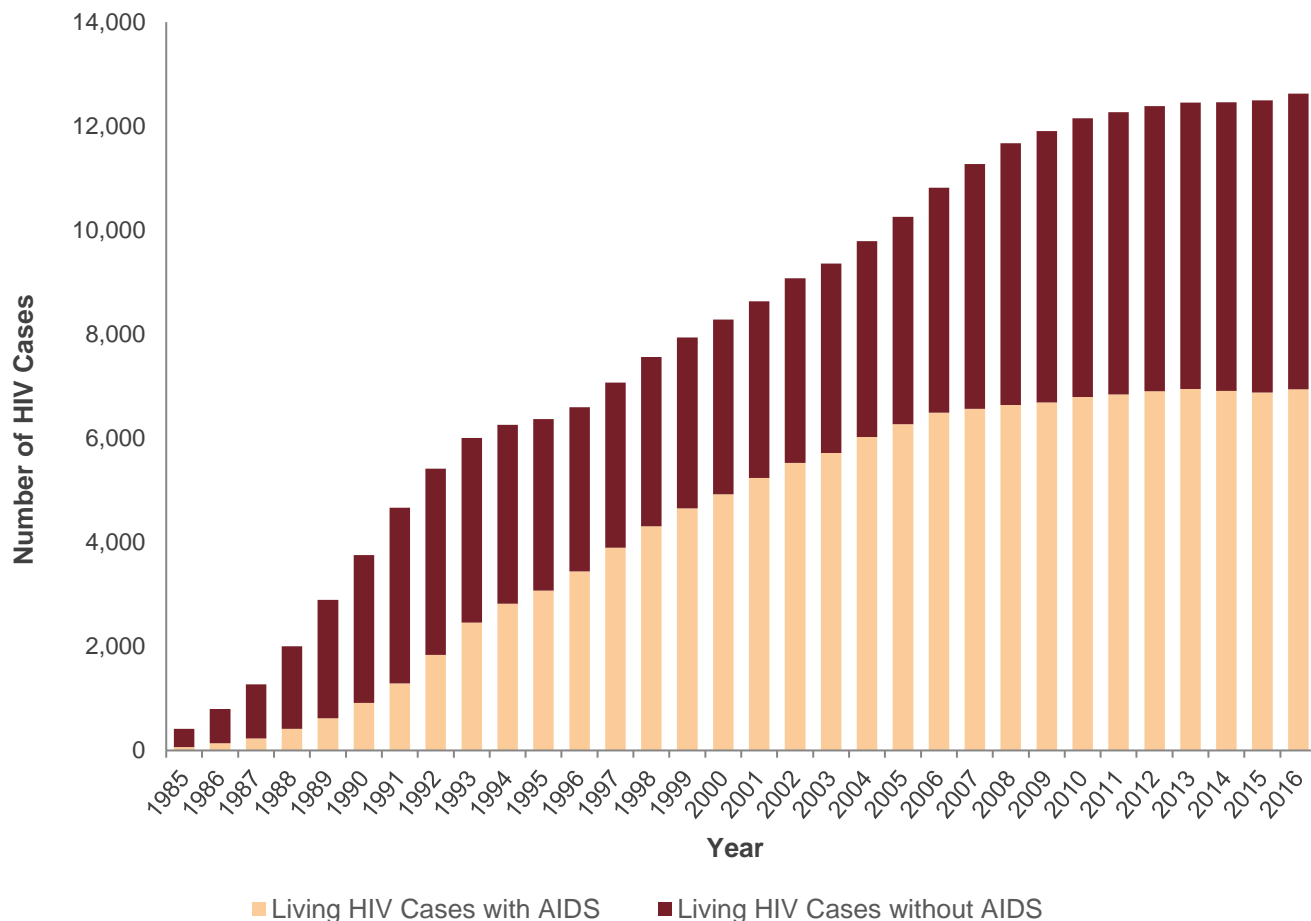
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS	YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS
<1985	160	58	25	2001	940	814	504
1985	322	75	43	2002	1,076	812	522
1986	449	134	63	2003	927	736	543
1987	586	208	110	2004	923	737	431
1988	908	350	169	2005	974	697	449
1989	1,178	456	251	2006	989	596	378
1990	1,234	649	354	2007	884	441	364
1991	1,381	804	428	2008	810	427	357
1992	1,381	1,113	570	2009	620	359	308
1993	1,286	1,270	645	2010	612	390	287
1994	1,158	1,166	808	2011	433	313	265
1995	1,086	1,135	881	2012	445	333	266
1996	990	1,070	703	2013	378	303	262
1997	1,034	940	480	2014	318	210	246
1998	1,014	850	441	2015*	328	220	252
1999	928	814	467	2016*	279	180	122
2000	859	719	447	TOTAL	26,890	19,379	12,441

*2015-2016 reported AIDS deaths are preliminary.

Figure 2 – Trends in Living HIV Cases, 1985-2016, Reported through 6/30/2017

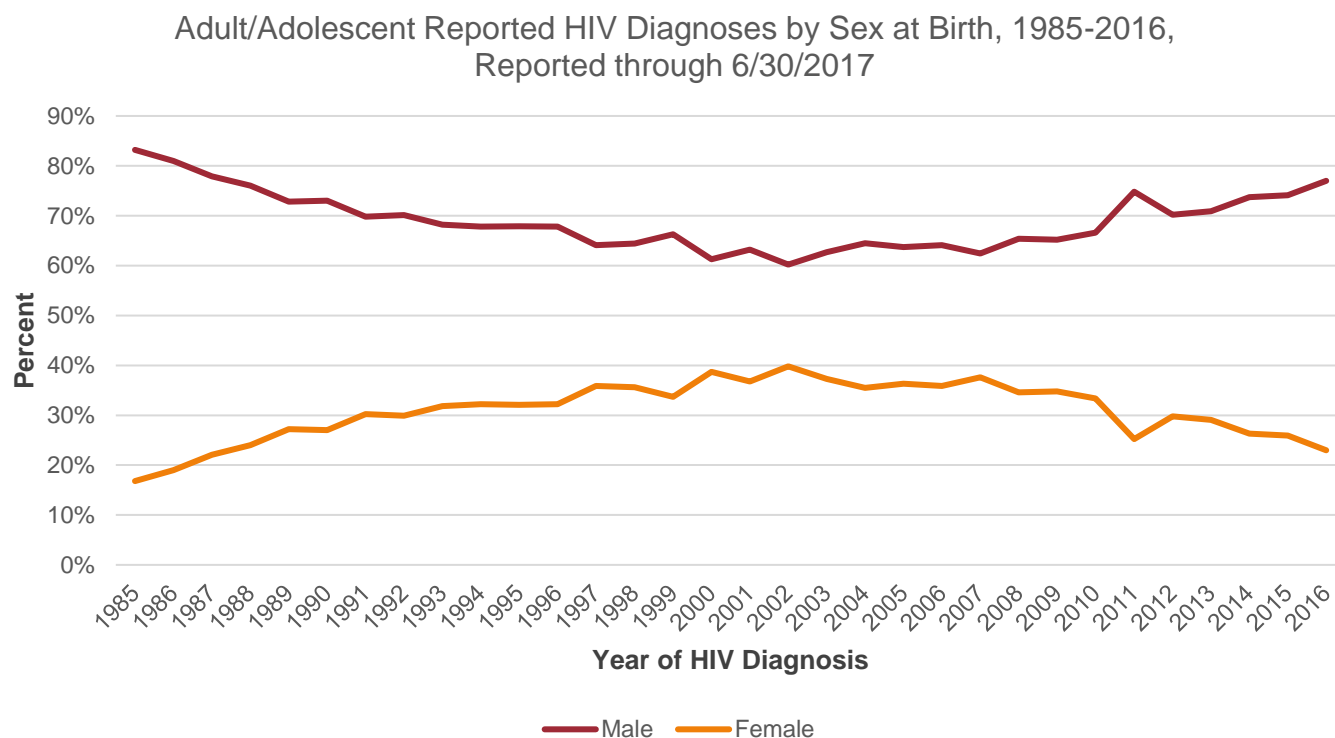
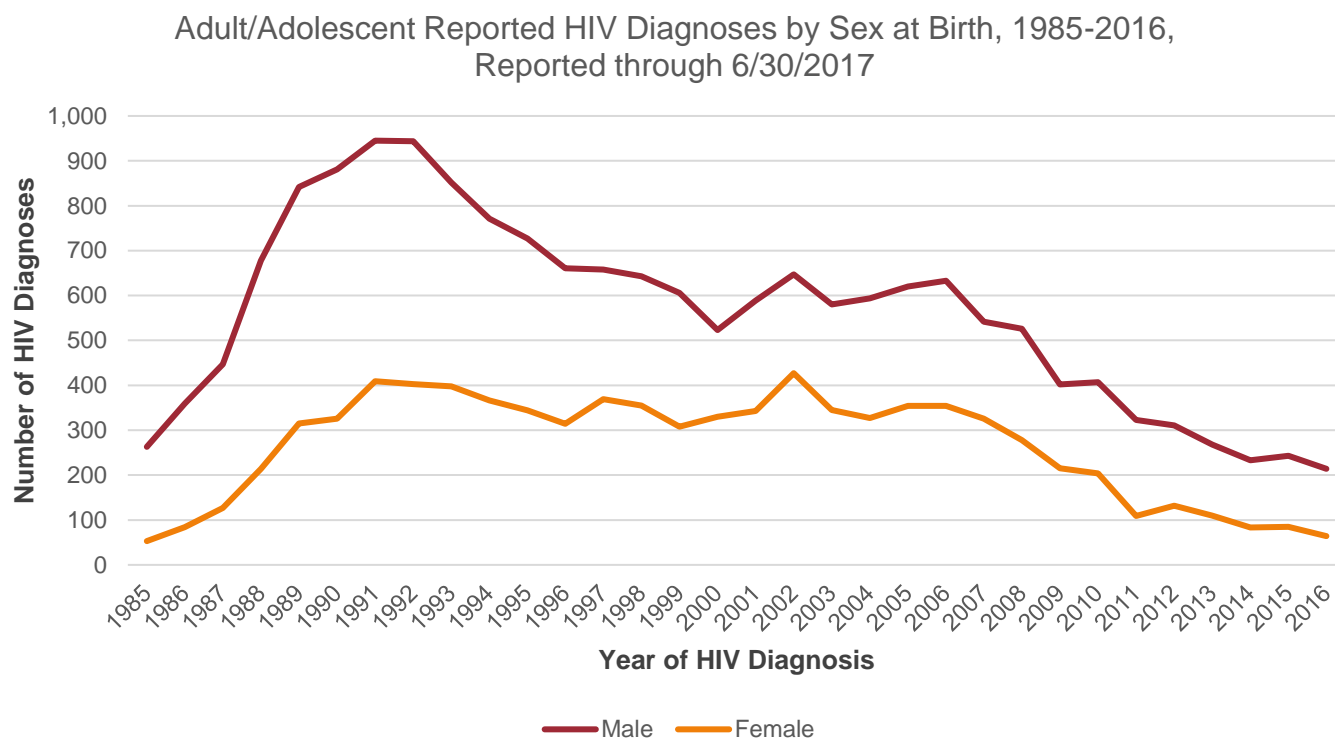
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2016, as Reported through 6/30/2017



YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES	YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES
1985	353	65	418	2001	3,394	5,237	8,631
1986	661	136	797	2002	3,551	5,527	9,078
1987	1,039	234	1,273	2003	3,642	5,720	9,362
1988	1,587	415	2,002	2004	3,761	6,026	9,787
1989	2,275	620	2,895	2005	3,982	6,274	10,256
1990	2,839	915	3,754	2006	4,325	6,492	10,817
1991	3,372	1,291	4,663	2007	4,704	6,569	11,273
1992	3,582	1,834	5,416	2008	5,034	6,639	11,673
1993	3,547	2,459	6,006	2009	5,214	6,690	11,904
1994	3,440	2,818	6,258	2010	5,362	6,793	12,155
1995	3,297	3,072	6,369	2011	5,425	6,841	12,266
1996	3,157	3,439	6,596	2012	5,478	6,908	12,386
1997	3,171	3,899	7,070	2013	5,503	6,949	12,452
1998	3,257	4,308	7,565	2014	5,544	6,913	12,457
1999	3,285	4,655	7,940	2015	5,613	6,881	12,494
2000	3,356	4,927	8,283	2016	5,689	6,939	12,628

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017

Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

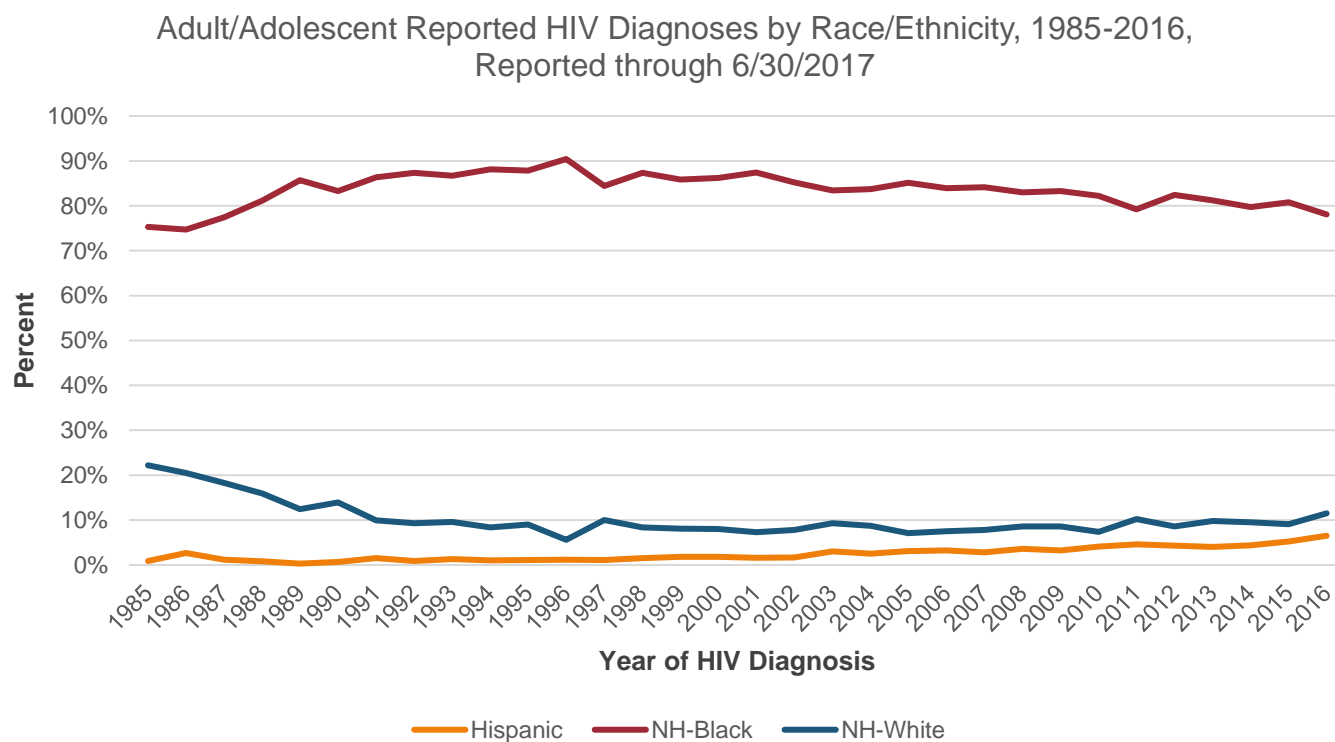
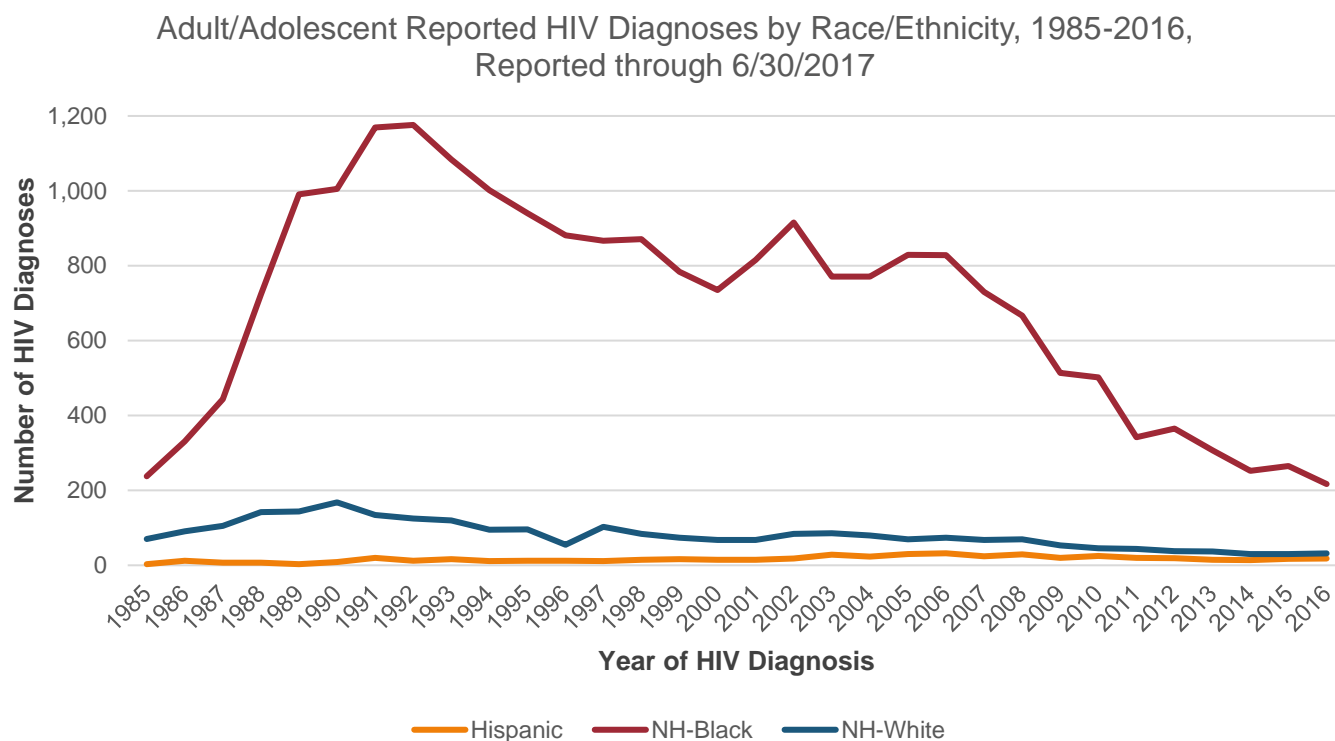


ADULT/ADOLESCENT REPORTED HIV DIAGNOSES

YEAR OF HIV DIAGNOSIS	No.	SEX AT BIRTH			
		Male		Female	
		No.	%	No.	%
<1985	159	136	85.5%	23	14.5%
1985	316	263	83.2%	53	16.8%
1986	443	359	81.0%	84	19.0%
1987	574	447	77.9%	127	22.1%
1988	892	678	76.0%	214	24.0%
1989	1,157	842	72.8%	315	27.2%
1990	1,207	881	73.0%	326	27.0%
1991	1,354	945	69.8%	409	30.2%
1992	1,347	944	70.1%	403	29.9%
1993	1,250	852	68.2%	398	31.8%
1994	1,137	771	67.8%	366	32.2%
1995	1,071	727	67.9%	344	32.1%
1996	975	661	67.8%	314	32.2%
1997	1,027	658	64.1%	369	35.9%
1998	998	643	64.4%	355	35.6%
1999	914	606	66.3%	308	33.7%
2000	853	523	61.3%	330	38.7%
2001	932	589	63.2%	343	36.8%
2002	1,074	647	60.2%	427	39.8%
2003	925	580	62.7%	345	37.3%
2004	921	594	64.5%	327	35.5%
2005	974	620	63.7%	354	36.3%
2006	987	633	64.1%	354	35.9%
2007	868	542	62.4%	326	37.6%
2008	804	526	65.4%	278	34.6%
2009	617	402	65.2%	215	34.8%
2010	611	407	66.6%	204	33.4%
2011	432	323	74.8%	109	25.2%
2012	443	311	70.2%	132	29.8%
2013	378	268	70.9%	110	29.1%
2014	316	233	73.7%	83	26.3%
2015	328	243	74.1%	85	25.9%
2016	278	214	77.0%	64	23.0%
TOTAL	26,562	18,068	68.0%	8,494	32.0%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

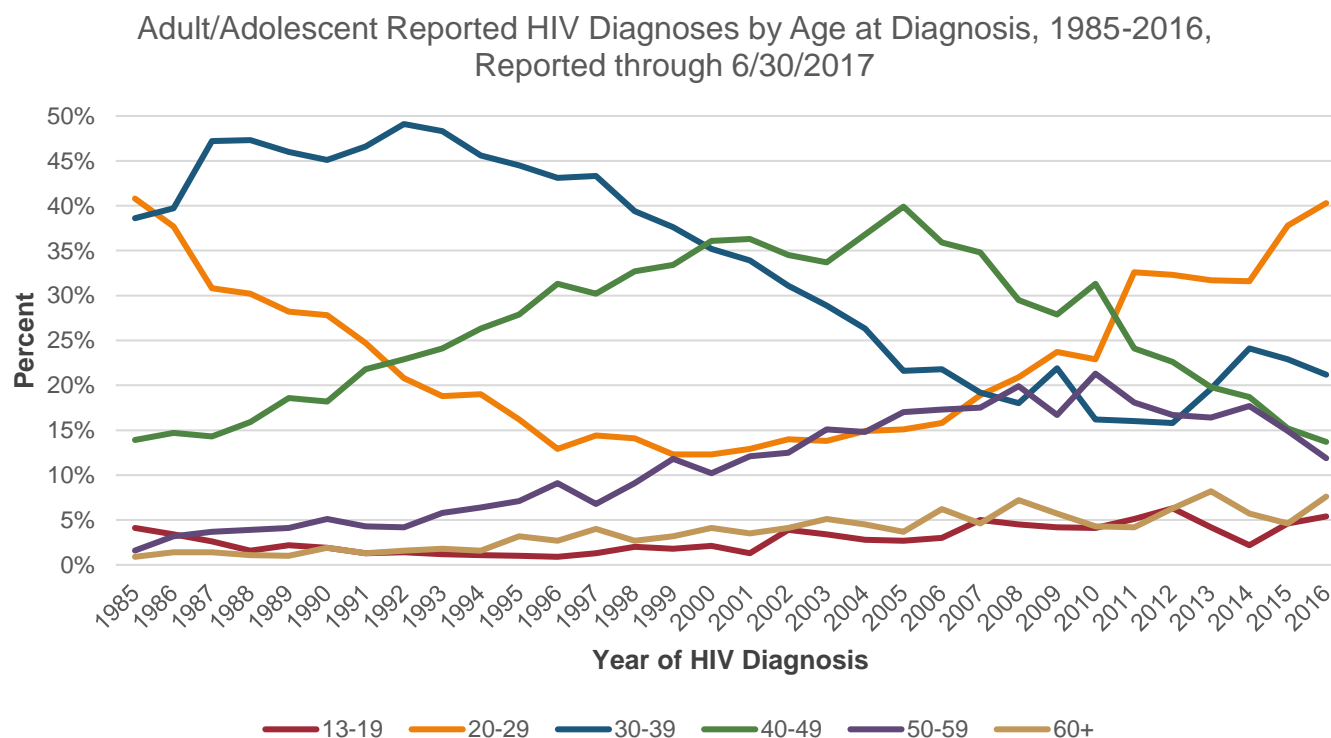
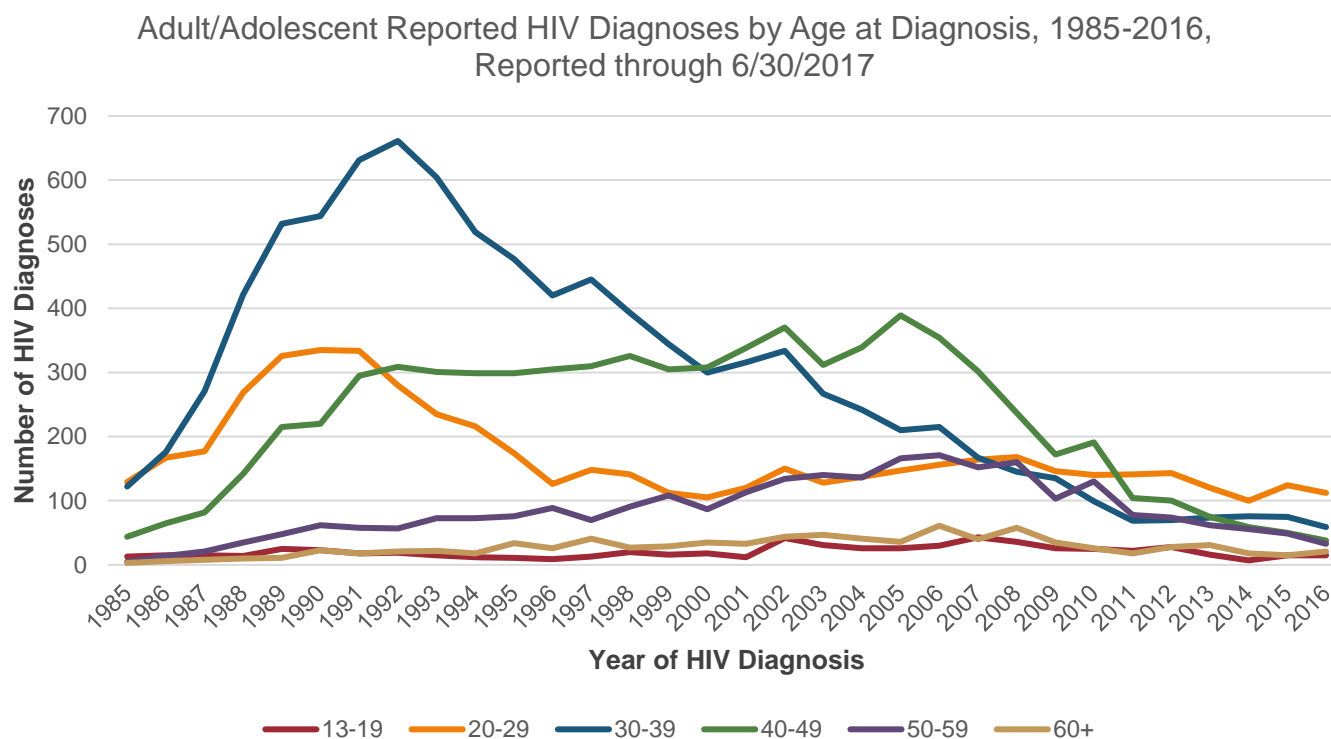


Non-Hispanic Other race not shown

YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
	No.	RACE/ETHNICITY							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	159	4	2.5%	96	60.4%	57	35.8%	2	1.3%
1985	316	3	0.9%	238	75.3%	70	22.2%	5	1.6%
1986	443	12	2.7%	331	74.7%	91	20.5%	9	2.0%
1987	574	7	1.2%	444	77.4%	105	18.3%	18	3.1%
1988	892	7	0.8%	723	81.1%	142	15.9%	20	2.2%
1989	1,157	3	0.3%	991	85.7%	144	12.4%	19	1.6%
1990	1,207	9	0.7%	1,005	83.3%	168	13.9%	25	2.1%
1991	1,354	20	1.5%	1,169	86.3%	134	9.9%	31	2.3%
1992	1,347	12	0.9%	1,176	87.3%	125	9.3%	34	2.5%
1993	1,250	16	1.3%	1,084	86.7%	120	9.6%	30	2.4%
1994	1,137	11	1.0%	1,002	88.1%	95	8.4%	29	2.6%
1995	1,071	12	1.1%	940	87.8%	96	9.0%	23	2.1%
1996	975	12	1.2%	881	90.4%	55	5.6%	27	2.8%
1997	1,027	11	1.1%	867	84.4%	103	10.0%	46	4.5%
1998	998	15	1.5%	871	87.3%	84	8.4%	28	2.8%
1999	914	16	1.8%	784	85.8%	74	8.1%	40	4.4%
2000	853	15	1.8%	735	86.2%	68	8.0%	35	4.1%
2001	932	15	1.6%	815	87.4%	68	7.3%	34	3.6%
2002	1,074	18	1.7%	915	85.2%	84	7.8%	57	5.3%
2003	925	28	3.0%	771	83.4%	86	9.3%	40	4.3%
2004	921	23	2.5%	771	83.7%	80	8.7%	47	5.1%
2005	974	30	3.1%	829	85.1%	69	7.1%	46	4.7%
2006	987	32	3.2%	828	83.9%	74	7.5%	53	5.4%
2007	868	24	2.8%	730	84.1%	68	7.8%	46	5.3%
2008	804	29	3.6%	667	83.0%	69	8.6%	39	4.9%
2009	617	20	3.2%	514	83.3%	53	8.6%	30	4.9%
2010	611	25	4.1%	502	82.2%	45	7.4%	39	6.4%
2011	432	20	4.6%	342	79.2%	44	10.2%	26	6.0%
2012	443	19	4.3%	365	82.4%	38	8.6%	21	4.7%
2013	378	15	4.0%	307	81.2%	37	9.8%	19	5.0%
2014	316	14	4.4%	252	79.7%	30	9.5%	20	6.3%
2015	328	17	5.2%	265	80.8%	30	9.1%	16	4.9%
2016	278	18	6.5%	217	78.1%	32	11.5%	11	4.0%
TOTAL	26,562	532	2.0%	22,427	84.4%	2,638	9.9%	965	3.6%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

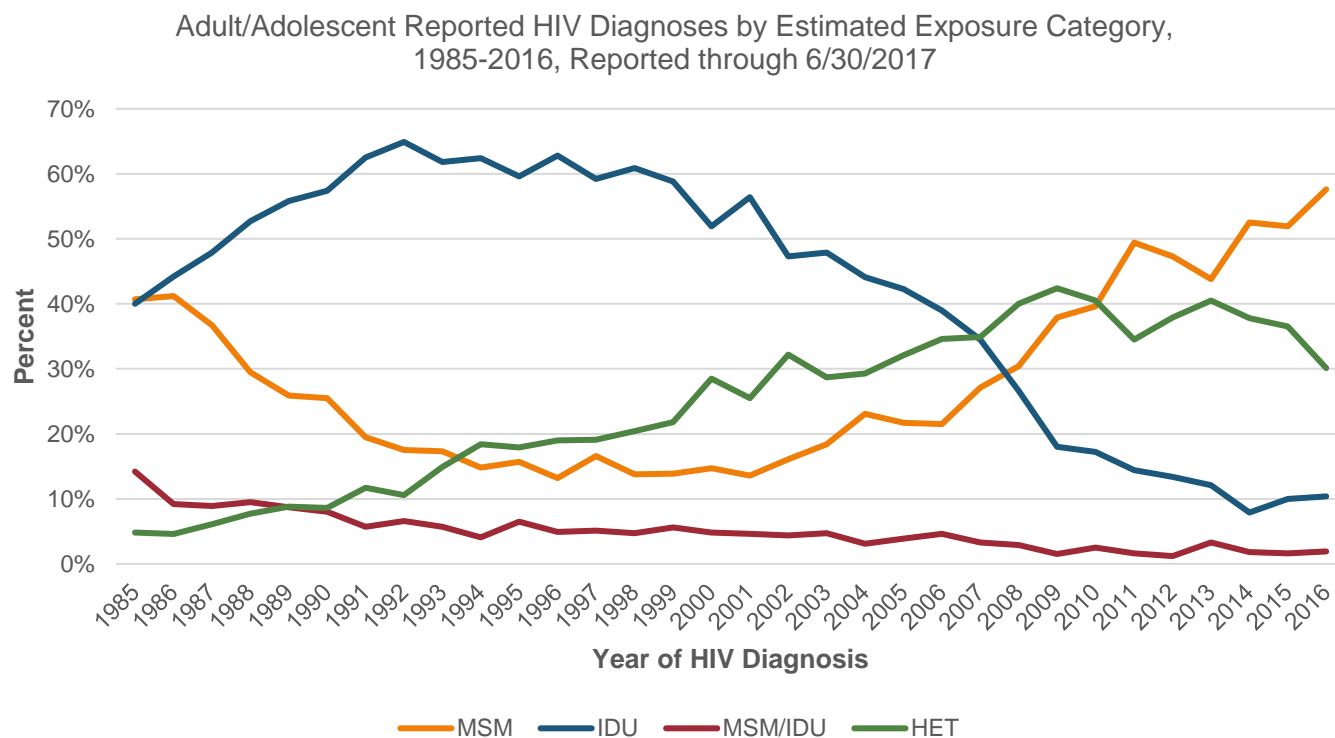
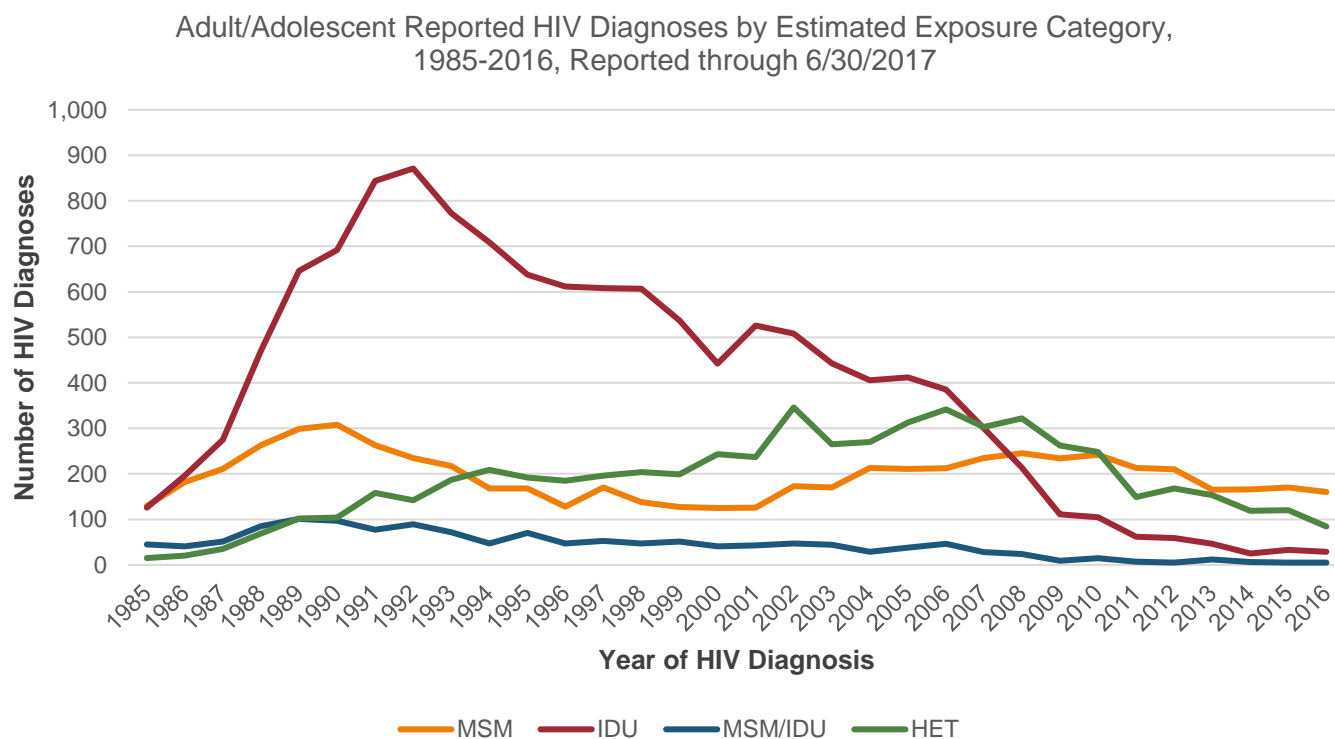


ADULT/ADOLESCENT REPORTED HIV DIAGNOSES

YEAR OF HIV DIAGNOSIS	No.	AGE AT HIV DIAGNOSIS											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	159	7	4.4%	72	45.3%	50	31.4%	20	12.6%	9	5.7%	1	0.6%
1985	316	13	4.1%	129	40.8%	122	38.6%	44	13.9%	5	1.6%	3	0.9%
1986	443	15	3.4%	167	37.7%	176	39.7%	65	14.7%	14	3.2%	6	1.4%
1987	574	15	2.6%	177	30.8%	271	47.2%	82	14.3%	21	3.7%	8	1.4%
1988	892	14	1.6%	269	30.2%	422	47.3%	142	15.9%	35	3.9%	10	1.1%
1989	1,157	25	2.2%	326	28.2%	532	46.0%	215	18.6%	48	4.1%	11	1.0%
1990	1,207	23	1.9%	335	27.8%	544	45.1%	220	18.2%	62	5.1%	23	1.9%
1991	1,354	18	1.3%	334	24.7%	631	46.6%	295	21.8%	58	4.3%	18	1.3%
1992	1,347	19	1.4%	280	20.8%	661	49.1%	309	22.9%	57	4.2%	21	1.6%
1993	1,250	15	1.2%	235	18.8%	604	48.3%	301	24.1%	73	5.8%	22	1.8%
1994	1,137	12	1.1%	216	19.0%	519	45.6%	299	26.3%	73	6.4%	18	1.6%
1995	1,071	11	1.0%	174	16.2%	477	44.5%	299	27.9%	76	7.1%	34	3.2%
1996	975	9	0.9%	126	12.9%	420	43.1%	305	31.3%	89	9.1%	26	2.7%
1997	1,027	13	1.3%	148	14.4%	445	43.3%	310	30.2%	70	6.8%	41	4.0%
1998	998	20	2.0%	141	14.1%	393	39.4%	326	32.7%	91	9.1%	27	2.7%
1999	914	16	1.8%	112	12.3%	344	37.6%	305	33.4%	108	11.8%	29	3.2%
2000	853	18	2.1%	105	12.3%	300	35.2%	308	36.1%	87	10.2%	35	4.1%
2001	932	12	1.3%	120	12.9%	316	33.9%	338	36.3%	113	12.1%	33	3.5%
2002	1,074	42	3.9%	150	14.0%	334	31.1%	370	34.5%	134	12.5%	44	4.1%
2003	925	31	3.4%	128	13.8%	267	28.9%	312	33.7%	140	15.1%	47	5.1%
2004	921	26	2.8%	137	14.9%	242	26.3%	339	36.8%	136	14.8%	41	4.5%
2005	974	26	2.7%	147	15.1%	210	21.6%	389	39.9%	166	17.0%	36	3.7%
2006	987	30	3.0%	156	15.8%	215	21.8%	354	35.9%	171	17.3%	61	6.2%
2007	868	43	5.0%	164	18.9%	167	19.2%	302	34.8%	152	17.5%	40	4.6%
2008	804	36	4.5%	168	20.9%	145	18.0%	237	29.5%	160	19.9%	58	7.2%
2009	617	26	4.2%	146	23.7%	135	21.9%	172	27.9%	103	16.7%	35	5.7%
2010	611	25	4.1%	140	22.9%	99	16.2%	191	31.3%	130	21.3%	26	4.3%
2011	432	22	5.1%	141	32.6%	69	16.0%	104	24.1%	78	18.1%	18	4.2%
2012	443	28	6.3%	143	32.3%	70	15.8%	100	22.6%	74	16.7%	28	6.3%
2013	378	16	4.2%	120	31.7%	74	19.6%	75	19.8%	62	16.4%	31	8.2%
2014	316	7	2.2%	100	31.6%	76	24.1%	59	18.7%	56	17.7%	18	5.7%
2015	328	15	4.6%	124	37.8%	75	22.9%	50	15.2%	49	14.9%	15	4.6%
2016	278	15	5.4%	112	40.3%	59	21.2%	38	13.7%	33	11.9%	21	7.6%
TOTAL	26,562	663	2.5%	5,542	20.9%	9,464	35.6%	7,275	27.4%	2,733	10.3%	885	3.3%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017

Number and Percent by Estimated Exposure Category[§] of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



Other Exposure Category not shown

[§] Multiple imputation was used to estimate and adjust for missing transmission category.

YEAR OF HIV DIAGNOSIS	No.**	% with No Reported Exposure‡	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
			ESTIMATED EXPOSURE CATEGORY§									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	159	3.1%	92	57.7%	49	30.6%	13	7.9%	4	2.6%	2	1.3%
1985	316	4.1%	129	40.7%	126	40.0%	45	14.2%	15	4.8%	1	0.3%
1986	443	1.6%	182	41.2%	196	44.2%	41	9.2%	20	4.6%	4	0.9%
1987	574	2.4%	211	36.7%	275	47.9%	51	8.9%	35	6.1%	3	0.5%
1988	892	2.6%	263	29.5%	470	52.7%	85	9.5%	69	7.7%	5	0.6%
1989	1,157	2.2%	299	25.9%	646	55.8%	101	8.7%	102	8.8%	9	0.8%
1990	1,207	3.3%	308	25.5%	692	57.4%	97	8.0%	104	8.6%	5	0.4%
1991	1,354	3.8%	263	19.5%	844	62.5%	77	5.7%	158	11.7%	7	0.5%
1992	1,347	4.1%	235	17.5%	871	64.9%	89	6.6%	142	10.6%	7	0.5%
1993	1,250	2.2%	217	17.3%	773	61.8%	72	5.7%	187	14.9%	2	0.2%
1994	1,137	3.6%	168	14.8%	709	62.4%	47	4.1%	209	18.4%	4	0.4%
1995	1,071	3.3%	168	15.7%	638	59.6%	70	6.5%	192	17.9%	3	0.3%
1996	975	4.1%	128	13.2%	612	62.8%	47	4.9%	185	19.0%	2	0.2%
1997	1,027	6.1%	170	16.6%	608	59.2%	53	5.1%	196	19.1%	0	0.0%
1998	998	5.4%	138	13.8%	607	60.9%	47	4.7%	204	20.4%	2	0.2%
1999	914	6.8%	127	13.9%	537	58.8%	51	5.6%	199	21.8%	0	0.0%
2000	853	7.0%	125	14.7%	442	51.9%	41	4.8%	243	28.5%	1	0.1%
2001	932	7.7%	126	13.6%	526	56.4%	43	4.6%	237	25.5%	0	0.0%
2002	1,074	10.1%	173	16.1%	508	47.3%	47	4.4%	346	32.2%	0	0.0%
2003	925	9.8%	170	18.4%	443	47.9%	44	4.7%	265	28.7%	3	0.3%
2004	921	10.4%	213	23.1%	406	44.1%	29	3.1%	270	29.3%	3	0.3%
2005	974	14.8%	211	21.7%	412	42.3%	38	3.9%	313	32.1%	0	0.0%
2006	987	19.7%	212	21.5%	385	39.0%	46	4.6%	342	34.6%	2	0.2%
2007	868	20.9%	235	27.1%	300	34.5%	28	3.3%	303	34.9%	2	0.2%
2008	804	24.3%	245	30.4%	214	26.6%	24	2.9%	322	40.0%	0	0.0%
2009	617	32.1%	234	37.9%	111	18.0%	9	1.5%	262	42.4%	1	0.2%
2010	611	33.7%	242	39.6%	105	17.2%	15	2.5%	248	40.5%	1	0.2%
2011	432	29.6%	213	49.4%	62	14.4%	7	1.6%	149	34.5%	0	0.0%
2012	443	22.1%	210	47.3%	59	13.4%	5	1.2%	168	37.9%	1	0.2%
2013	378	12.7%	165	43.8%	46	12.1%	12	3.3%	153	40.5%	1	0.3%
2014	316	12.3%	166	52.5%	25	7.9%	6	1.8%	119	37.8%	0	0.0%
2015	328	8.5%	170	51.9%	33	10.0%	5	1.6%	120	36.5%	0	0.0%
2016	278	26.6%	160	57.6%	29	10.4%	5	1.9%	84	30.1%	0	0.0%
TOTAL	26,562	9.5%	6,369	24.0%	12,759	48.1%	1,387	5.2%	5,964	22.5%	71	0.3%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

‡Percent with no reported exposure prior to multiple imputation adjustment.

** Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation.

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
21201	15,066	13	4.7%	86.3	84.6%	92.3%	46.2%	76.9%	241
21202	20,578	18	6.5%	87.5	77.8%	94.4%	27.8%	100.0%	368
21205	12,454	9	3.2%	72.3	77.8%	77.8%	***	100.0%	732
21206	32,956	20	7.2%	60.7	80.0%	95.0%	***	95.0%	562
21207	11,785	11	4.0%	93.3	90.9%	90.9%	***	100.0%	546
21208	1,580	0	0.0%	0.0	--	--	--	--	--
21209	10,027	1	0.4%	10.0	***	***	***	***	***
21210	11,921	2	0.7%	16.8	***	***	***	***	***
21211	15,430	3	1.1%	19.4	***	***	***	***	***
21212	17,586	5	1.8%	28.4	100.0%	100.0%	***	100.0%	368
21213	26,404	14	5.0%	53.0	85.7%	85.7%	***	85.7%	416
21214	17,120	5	1.8%	29.2	***	***	***	***	***
21215	48,139	25	9.0%	51.9	80.0%	84.0%	32.0%	72.0%	328
21216	26,374	24	8.6%	91.0	91.7%	95.8%	20.8%	87.5%	502
21217	30,245	23	8.3%	76.0	82.6%	95.7%	26.1%	87.0%	518
21218	43,212	24	8.6%	55.5	83.3%	83.3%	***	79.2%	481
21222	1,570	0	0.0%	0.0	0.0%	0.0%	0.0%	0.0%	--
21223	21,146	13	4.7%	61.5	76.9%	76.9%	***	84.6%	307
21224	34,439	12	4.3%	34.8	75.0%	83.3%	***	83.3%	434
21225	14,194	5	1.8%	35.2	***	***	***	***	***
21226	2,581	1	0.4%	38.8	***	***	***	***	***
21227	783	***	***	***	***	***	***	***	***
21228	224	***	***	***	***	***	***	***	***
21229	31,622	18	6.5%	56.9	88.9%	94.4%	***	83.3%	364
21230	28,807	12	4.3%	41.7	91.7%	91.7%	***	91.7%	379
21231	13,655	9	3.2%	65.9	88.9%	88.9%	***	77.8%	638
21234	7,128	5	1.8%	70.1	***	***	***	***	***
21236	173	0	0.0%	0.0	--	--	--	--	--
21237	39	0	0.0%	0.0	--	--	--	--	--
21239	19,999	4	1.4%	20.0	***	***	***	***	***
21251	925	0	0.0%	0.0	--	--	--	--	--
Unknown	--	1	0.4%	--	***	***	***	***	***
TOTAL	518,161	278	100.0%	53.7	83.1%	88.5%	22.7%	86.0%	415

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2016, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
21201	15,066	8	4.5%	53.1	4.0	75.0%
21202	20,578	9	5.1%	43.7	5.6	44.4%
21205	12,454	4	2.2%	32.1	***	***
21206	32,956	11	6.2%	33.4	5.7	36.4%
21207	11,785	2	1.1%	17.0	***	***
21208	1,580	0	0.0%	0.0	--	--
21209	10,027	1	0.6%	10.0	***	***
21210	11,921	0	0.0%	0.0	--	--
21211	15,430	2	1.1%	13.0	***	***
21212	17,586	1	0.6%	5.7	***	***
21213	26,404	12	6.7%	45.4	7.3	25.0%
21214	17,120	3	1.7%	17.5	***	***
21215	48,139	18	10.1%	37.4	7.2	44.4%
21216	26,374	16	9.0%	60.7	7.4	25.0%
21217	30,245	22	12.4%	72.7	5.6	27.3%
21218	43,212	17	9.6%	39.3	8.5	17.6%
21222	1,570	0	0.0%	0.0	--	--
21223	21,146	16	9.0%	75.7	8.2	6.3%
21224	34,439	8	4.5%	23.2	3.5	62.5%
21225	14,194	0	0.0%	0.0	--	--
21226	2,581	0	0.0%	0.0	--	--
21227	783	0	0.0%	0.0	--	--
21228	224	0	0.0%	0.0	--	--
21229	31,622	10	5.6%	31.6	4.3	40.0%
21230	28,807	5	2.8%	17.4	2.0	60.0%
21231	13,655	8	4.5%	58.6	7.1	37.5%
21234	7,128	1	0.6%	14.0	***	***
21236	173	0	0.0%	0.0	--	--
21237	39	0	0.0%	0.0	--	--
21239	19,999	4	2.2%	20.0	***	***
21251	925	0	0.0%	0.0	--	--
Unknown	--	0	0.0%	0.0	--	--
TOTAL	518,161	178	100.0%	34.4	6.4	33.1%

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Rate: Number of adult/adolescent AIDS diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Mean Years from HIV Diagnosis: Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
21201	15,066	250	4.5%	1,659.4	291	4.3%	1,931.5	541	4.4%	3,590.9	27
21202	20,578	371	6.6%	1,802.9	434	6.4%	2,109.0	805	6.5%	3,911.9	25
21205	12,454	270	4.8%	2,167.9	320	4.7%	2,569.4	590	4.8%	4,737.3	21
21206	32,956	252	4.5%	764.7	310	4.5%	940.7	562	4.5%	1,705.3	58
21207	11,785	141	2.5%	1,196.4	156	2.3%	1,323.7	297	2.4%	2,520.1	39
21208	1,580	5	0.1%	316.5	2	0.0%	126.6	7	0.1%	443.1	225
21209	10,027	29	0.5%	289.2	35	0.5%	349.0	64	0.5%	638.3	156
21210	11,921	22	0.4%	184.5	11	0.2%	92.3	33	0.3%	276.8	361
21211	15,430	65	1.2%	421.3	77	1.1%	499.0	142	1.1%	920.3	108
21212	17,586	136	2.4%	773.3	141	2.1%	801.8	277	2.2%	1,575.1	63
21213	26,404	405	7.2%	1,533.9	525	7.7%	1,988.4	930	7.5%	3,522.2	28
21214	17,120	80	1.4%	467.3	115	1.7%	671.7	195	1.6%	1,139.0	87
21215	48,139	481	8.6%	999.2	629	9.2%	1,306.6	1,110	8.9%	2,305.8	43
21216	26,374	327	5.8%	1,239.9	431	6.3%	1,634.2	758	6.1%	2,874.0	34
21217	30,245	631	11.3%	2,086.3	785	11.5%	2,595.4	1,416	11.4%	4,681.7	21
21218	43,212	562	10.1%	1,300.6	662	9.7%	1,532.0	1,224	9.9%	2,832.6	35
21222	1,570	10	0.2%	637.0	2	0.0%	127.4	12	0.1%	764.4	130
21223	21,146	342	6.1%	1,617.3	464	6.8%	2,194.2	806	6.5%	3,811.5	26
21224	34,439	209	3.7%	606.9	237	3.5%	688.2	446	3.6%	1,295.0	77
21225	14,194	125	2.2%	880.7	150	2.2%	1,056.8	275	2.2%	1,937.5	51
21226	2,581	14	0.3%	542.5	22	0.3%	852.5	36	0.3%	1,395.0	71
21227	783	***	***	***	***	***	***	***	***	***	***
21228	224	***	***	***	***	***	***	***	***	***	***
21229	31,622	283	5.1%	894.9	384	5.6%	1,214.3	667	5.4%	2,109.3	47
21230	28,807	174	3.1%	604.0	187	2.7%	649.1	361	2.9%	1,253.2	79
21231	13,655	116	2.1%	849.5	158	2.3%	1,157.1	274	2.2%	2,006.6	49
21234	7,128	29	0.5%	406.8	48	0.7%	673.4	77	0.6%	1,080.2	92
21236	173	***	***	***	***	***	***	***	***	***	***
21237	39	***	***	***	***	***	***	***	***	***	***
21239	19,999	145	2.6%	725.0	171	2.5%	855.0	316	2.5%	1,580.1	63
21251	925	***	***	***	***	***	***	***	***	***	***
Unknown	--	66	1.2%	--	58	0.9%	--	124	1.0%	--	--
TOTAL	518,161	5,592	100.0%	1,079.2	6,819	100.0%	1,316.0	12,411	100.0%	2,395.2	41

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at late time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis or Current Residence, Reported through 6/30/2017

Jurisdiction of Residence	Population Age 13+	Adult/Adolescent Total Living HIV Cases								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
21201	15,066	541	4.4%	3,590.9	27	489	4.7%	3,245.8	30	-9.6%
21202	20,578	805	6.5%	3,911.9	25	597	5.7%	2,901.1	34	-25.8%
21205	12,454	590	4.8%	4,737.3	21	339	3.2%	2,721.9	36	-42.5%
21206	32,956	562	4.5%	1,705.3	58	612	5.8%	1,857.0	53	8.9%
21207	11,785	297	2.4%	2,520.1	39	224	2.1%	1,900.7	52	-24.6%
21208	1,580	7	0.1%	443.1	225	8	0.1%	506.4	197	14.3%
21209	10,027	64	0.5%	638.3	156	63	0.6%	628.3	159	-1.6%
21210	11,921	33	0.3%	276.8	361	42	0.4%	352.3	283	27.3%
21211	15,430	142	1.1%	920.3	108	131	1.2%	849.0	117	-7.7%
21212	17,586	277	2.2%	1,575.1	63	262	2.5%	1,489.8	67	-5.4%
21213	26,404	930	7.5%	3,522.2	28	775	7.4%	2,935.2	34	-16.7%
21214	17,120	195	1.6%	1,139.0	87	207	2.0%	1,209.1	82	6.2%
21215	48,139	1,110	8.9%	2,305.8	43	1,011	9.6%	2,100.2	47	-8.9%
21216	26,374	758	6.1%	2,874.0	34	654	6.2%	2,479.7	40	-13.7%
21217	30,245	1,416	11.4%	4,681.7	21	1,155	11.0%	3,818.8	26	-18.4%
21218	43,212	1,224	9.9%	2,832.6	35	978	9.3%	2,263.3	44	-20.1%
21222	1,570	12	0.1%	764.4	130	12	0.1%	764.4	130	0.0%
21223	21,146	806	6.5%	3,811.5	26	683	6.5%	3,229.9	30	-15.3%
21224	34,439	446	3.6%	1,295.0	77	357	3.4%	1,036.6	96	-20.0%
21225	14,194	275	2.2%	1,937.5	51	249	2.4%	1,754.3	57	-9.5%
21226	2,581	36	0.3%	1,395.0	71	28	0.3%	1,085.0	92	-22.2%
21227	783	***	***	***	***	***	***	***	***	***
21228	224	***	***	***	***	***	***	***	***	***
21229	31,622	667	5.4%	2,109.3	47	626	6.0%	1,979.6	50	-6.1%
21230	28,807	361	2.9%	1,253.2	79	324	3.1%	1,124.7	88	-10.2%
21231	13,655	274	2.2%	2,006.6	49	234	2.2%	1,713.6	58	-14.6%
21234	7,128	77	0.6%	1,080.2	92	68	0.6%	954.0	104	-11.7%
21236	173	***	***	***	***	***	***	***	***	***
21237	39	***	***	***	***	***	***	***	***	***
21239	19,999	316	2.5%	1,580.1	63	308	2.9%	1,540.1	64	-2.5%
21251	925	***	***	***	***	***	***	***	***	***
Unknown	--	124	1.0%	--	--	46	0.4%	--	--	-62.9%
TOTAL	518,161	12,411	100.0%	2,395.2	41	10,491	100.0%	2,024.7	49	-15.5%

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Table 5 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
21201	489	301	61.6%	563	12.0%	9.0%	18.9%	60.1%
21202	597	347	58.1%	550	14.7%	13.5%	15.0%	56.8%
21205	339	215	63.4%	523	16.3%	14.0%	17.7%	52.1%
21206	612	438	71.6%	557	10.5%	15.8%	17.6%	56.2%
21207	224	137	61.2%	561	9.5%	15.3%	15.3%	59.9%
21208	8	7	87.5%	767	0.0%	0.0%	0.0%	100.0%
21209	63	43	68.3%	622	11.6%	9.3%	20.9%	58.1%
21210	42	29	69.0%	561	0.0%	27.6%	10.3%	62.1%
21211	131	94	71.8%	580	8.5%	10.6%	23.4%	57.4%
21212	262	179	68.3%	596	10.6%	8.9%	13.4%	67.0%
21213	775	530	68.4%	521	15.8%	14.9%	16.0%	53.2%
21214	207	142	68.6%	636	13.4%	11.3%	10.6%	64.8%
21215	1,011	665	65.8%	512	14.6%	16.8%	16.8%	51.7%
21216	654	433	66.2%	517	13.2%	17.3%	17.3%	52.2%
21217	1,155	765	66.2%	513	14.1%	14.9%	19.0%	52.0%
21218	978	655	67.0%	554	13.0%	14.7%	15.4%	56.9%
21222	12	9	75.0%	649	0.0%	11.1%	22.2%	66.7%
21223	683	464	67.9%	478	15.1%	18.5%	20.0%	46.3%
21224	357	249	69.7%	533	14.5%	16.1%	15.7%	53.8%
21225	249	177	71.1%	558	11.3%	18.6%	15.8%	54.2%
21226	28	17	60.7%	664	17.6%	17.6%	11.8%	52.9%
21227	***	***	***	***	***	***	***	***
21228	***	***	***	***	***	***	***	***
21229	626	449	71.7%	564	11.6%	16.5%	17.1%	54.8%
21230	324	212	65.4%	538	13.2%	15.6%	16.0%	55.2%
21231	234	161	68.8%	552	9.9%	14.3%	17.4%	58.4%
21234	68	47	69.1%	559	8.5%	4.3%	27.7%	59.6%
21236	***	***	***	***	***	***	***	***
21237	***	***	***	***	***	***	***	***
21239	308	222	72.1%	539	13.5%	10.4%	20.3%	55.9%
21251	***	***	***	***	***	***	***	***
Unknown	46	19	41.3%	425	21.1%	10.5%	21.1%	47.4%
TOTAL	10,491	7,008	66.8%	537	13.2%	14.9%	17.2%	54.7%

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 6 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
21201	489	279	57.1%	79.2%	8,037
21202	597	310	51.9%	68.4%	12,821
21205	339	181	53.4%	70.2%	12,577
21206	612	377	61.6%	77.5%	7,541
21207	224	144	64.3%	75.0%	12,680
21208	8	6	75.0%	100.0%	--
21209	63	40	63.5%	77.5%	2,527
21210	42	27	64.3%	85.2%	4,773
21211	131	83	63.4%	83.1%	23,283
21212	262	158	60.3%	76.6%	2,970
21213	775	459	59.2%	66.9%	7,689
21214	207	121	58.5%	80.2%	3,227
21215	1,011	661	65.4%	73.7%	10,166
21216	654	429	65.6%	74.6%	6,772
21217	1,155	723	62.6%	74.6%	16,005
21218	978	572	58.5%	73.4%	10,450
21222	12	6	50.0%	83.3%	550
21223	683	434	63.5%	73.5%	14,038
21224	357	211	59.1%	72.0%	9,389
21225	249	155	62.2%	74.2%	8,269
21226	28	14	50.0%	71.4%	25,851
21227	***	***	***	***	***
21228	***	***	***	***	***
21229	626	428	68.4%	75.5%	9,160
21230	324	197	60.8%	72.6%	8,866
21231	234	144	61.5%	75.0%	5,180
21234	68	40	58.8%	80.0%	9,595
21236	***	***	***	***	***
21237	***	***	***	***	***
21239	308	196	63.6%	74.5%	10,891
21251	***	***	***	***	***
Unknown	46	16	34.8%	68.8%	38,019
TOTAL	10,491	6,414	61.1%	74.0%	9,550

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

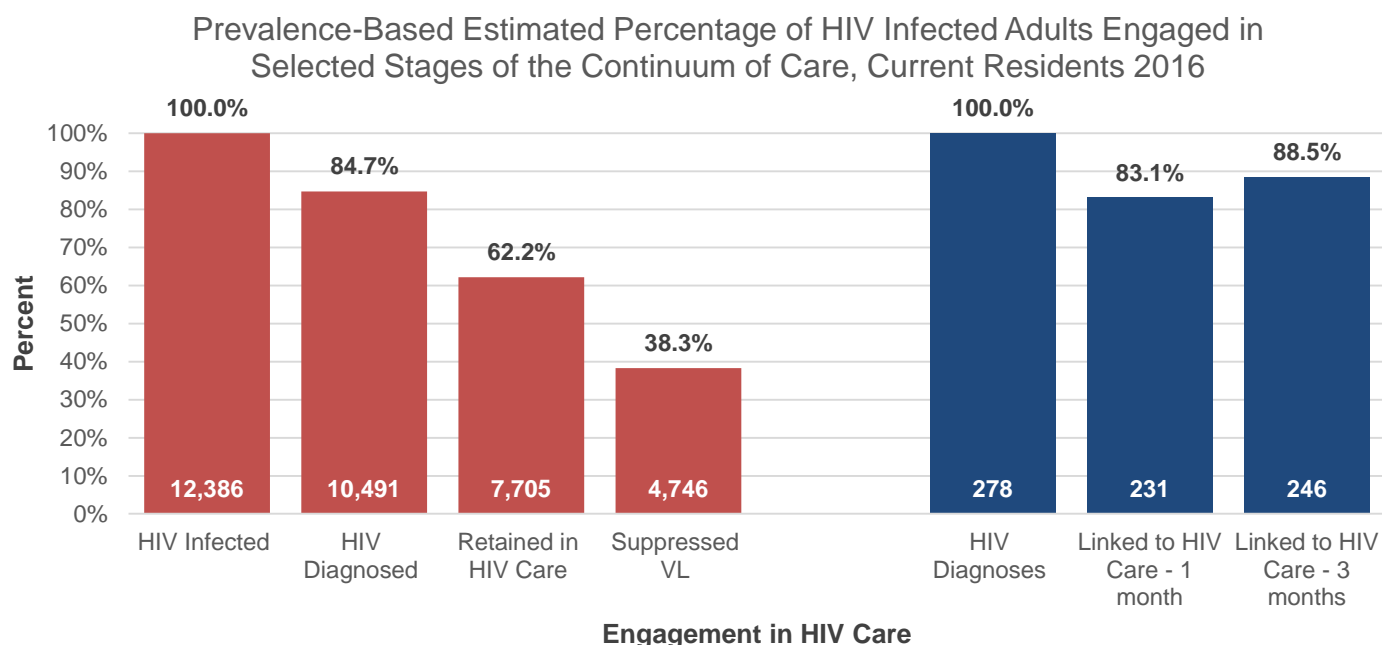
Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IV – Continuum of Care Cascades

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Baltimore City Residents, Reported through 6/30/2017

The prevalence-based Baltimore City Engagement in HIV Care Cascade (below) uses the most recent Centers for Disease Control and Prevention (CDC) estimate of the number of undiagnosed persons in Maryland (15.3%)² to generate an estimated number of HIV infected persons currently residing in Baltimore City. It then uses Maryland surveillance data to describe the number and percentage of persons living with HIV in Baltimore City on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	12,386	100.0%	New HIV Diagnoses	278	100.0%
HIV Diagnosed	10,491	84.7%	Linked to HIV Care – 1 Month	231	83.1%
Retained in HIV Care	7,705	62.2%	Linked to HIV Care – 3 Months	246	88.5%
Suppressed VL	4,746	38.3%			

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

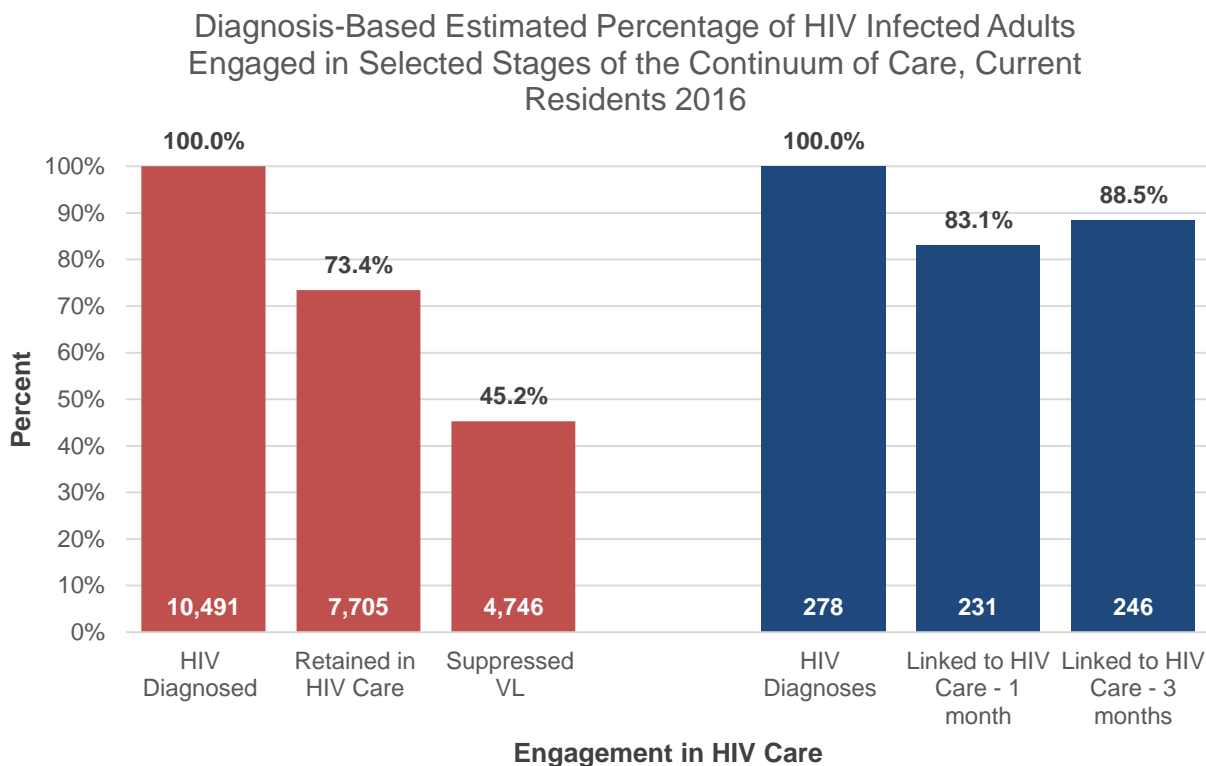
Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” *Clin Infect Dis*. 2011; 52 (6): 793-800.

²Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2015. *HIV Surveillance Supplemental Report* 2017;22(No. 2). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published July 2017.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Baltimore City Residents, Reported through 6/30/2017

The diagnosis-based Baltimore City Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Baltimore City residents to describe the number and percentage of persons living with HIV in Baltimore City on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	10,491	100.0%	New HIV Diagnoses	278	100.0%
Retained in HIV Care	7,705	73.4%	Linked to HIV Care – 1 Month	231	83.1%
Suppressed VL	4,746	45.2%	Linked to HIV Care – 3 Months	246	88.5%

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through 6/30/2017

AGE AT HIV DIAGNOSIS	POPULATION	REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
<5 (Pediatric)	40,198	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	56,305	1	0.4%	1.8	***	***	***	***	***
13-19	49,430	15	5.4%	30.3	***	***	***	***	***
20-29	108,493	112	40.1%	103.2	80.4%	87.5%	17.9%	85.7%	477
30-39	94,794	59	21.1%	62.2	89.8%	96.6%	23.7%	88.1%	497
40-49	69,216	38	13.6%	54.9	81.6%	81.6%	26.3%	84.2%	361
50-59	81,707	33	11.8%	40.4	78.8%	84.8%	36.4%	78.8%	216
60+	114,521	21	7.5%	18.3	85.7%	90.5%	28.6%	95.2%	369
TOTAL	614,664	279	100.0%	45.4	83.2%	88.5%	22.6%	86.0%	416

*** Data withheld due to low population counts and/or case counts

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2016.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Rate: Number of HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 8 – HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	POPULATION	TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	40,198	1	0.0%	100.0%	2.5	40,198
5-12	56,305	13	0.1%	0.0%	23.1	4,331
13-19	49,430	49	0.5%	20.4%	99.1	1,008
20-29	108,493	1,016	9.5%	32.8%	936.5	106
30-39	94,794	1,676	15.7%	45.0%	1,768.0	56
40-49	69,216	2,212	20.8%	60.1%	3,195.8	31
50-59	81,707	3,656	34.3%	66.3%	4,474.5	22
60+	114,521	2,024	19.0%	68.3%	1,767.4	56
TOTAL	614,664	10,647	100.0%	58.6%	1,732.2	57

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2016.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	24	15	62.5%	481	0.0%	13.3%	40.0%	46.7%
20-29	915	564	61.6%	534	11.5%	14.0%	19.1%	55.3%
30-39	1,660	1,027	61.9%	529	13.2%	15.8%	16.8%	54.1%
40-49	2,212	1,442	65.2%	518	15.2%	15.0%	17.8%	52.0%
50-59	3,656	2,533	69.3%	538	13.7%	14.8%	16.2%	55.2%
60+	2,024	1,427	70.5%	558	11.1%	14.6%	17.3%	56.9%
TOTAL	10,491	7,008	66.8%	537	13.2%	14.9%	17.2%	54.7%

Table 10 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	No.	Recent Viral Load Test Result				Median Unsuppressed
		No. with Test	% with Test	% Suppressed		
13-19	24	18	75.0%	38.9%		13,183
20-29	915	592	64.7%	57.1%		9,656
30-39	1,660	1,013	61.0%	68.4%		11,672
40-49	2,212	1,356	61.3%	71.7%		13,286
50-59	3,656	2,277	62.3%	77.5%		7,452
60+	2,024	1,158	57.2%	83.9%		6,914
TOTAL	10,491	6,414	61.1%	74.0%		9,550

Age on [date]: Age group of living cases on the specified date.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result
					% 1 mo.	% 3 mo.		
Male	239,937	214	77.0%	89.2	84.1%	89.3%	22.0%	86.4%
Female	278,224	64	23.0%	23.0	79.7%	85.9%	25.0%	84.4%
TOTAL	518,161	278	100.0%	53.7	83.1%	88.5%	22.7%	86.0%

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result
					% 1 mo.	% 3 mo.		
Hispanic	22,169	18	6.5%	81.2	72.2%	77.8%	***	72.2%
Non-Hispanic	495,992	260	93.5%	52.4	83.8%	89.2%	23.1%	86.9%
American Indian/Alaska Native, only	1,522	0	0.0%	0.0	--	--	--	--
Asian, only	14,843	3	1.1%	20.2	***	***	***	***
Black, only	319,068	217	78.1%	68.0	82.5%	88.5%	20.7%	86.6%
Native Hawaiian/ Other Pacific Islander, only	200	0	0.0%	0.0	--	--	--	--
White, only	153,061	32	11.5%	20.9	90.6%	93.8%	37.5%	84.4%
Multiracial/ Other	7,299	8	2.9%	109.6	***	***	***	***
TOTAL	518,161	278	100.0%	53.7	83.1%	88.5%	22.7%	86.0%

COUNTRY OF BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result
					% 1 mo.	% 3 mo.		
United States	479,293	255	91.7%	53.2	82.4%	87.8%	22.7%	85.5%
Foreign-born	46,101	14	5.0%	30.4	85.7%	92.9%	***	92.9%
Africa	--	8	2.9%	--	75.0%	87.5%	***	87.5%
Asia	--	1	0.4%	--	***	***	***	***
Caribbean	--	2	0.7%	--	***	***	***	***
Central America	--	3	1.1%	--	***	***	***	***
Other	--	0	0.0%	--	--	--	--	--
Unknown	--	9	3.2%	--	100.0%	100.0%	***	88.9%
TOTAL	525,394	278	100.0%	52.9	83.1%	88.5%	22.7%	86.0%

* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

** Population data by country of birth are from the 2015 American Community Survey

*** Data withheld due to low population and/or case counts

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 12 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	POPULATION AGE 13+	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Male	239,937	6,828	65.1%	57.4%	2,845.7	35
Female	278,224	3,663	34.9%	60.6%	1,316.6	75
TOTAL	518,161	10,491	100.0%	58.5%	2,024.7	49

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Hispanic	22,169	376	3.6%	59.8%	1,696.1	58
Non-Hispanic	495,992	10,115	96.4%	58.4%	2,039.3	49
American Indian/Alaska Native, only	1,522	***	***	***	***	***
Asian, only	14,843	17	0.2%	17.6%	114.5	873
Black, only	319,068	8,640	82.4%	58.8%	2,707.9	36
Native Hawaiian/Other Pacific Islander, only	200	***	***	***	***	***
White, only	153,061	867	8.3%	52.8%	566.4	176
Multiracial/Other	7,299	585	5.6%	62.6%	8,014.4	12
TOTAL	518,161	10,491	100.0%	58.5%	2,024.7	49

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
United States	479,293	10,004	95.4%	59.2%	2,087.2	47
Foreign-born	46,101	205	2.0%	58.5%	444.7	224
Africa	--	93	0.9%	58.1%	--	--
Asia	--	18	0.2%	38.9%	--	--
Caribbean	--	23	0.2%	73.9%	--	--
Central America	--	49	0.5%	65.3%	--	--
Other	--	22	0.2%	45.5%	--	--
Unknown	--	282	2.7%	34.4%	--	--
TOTAL	525,394	10,491	100.0%	58.5%	1,996.8	50

* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

** Population data by country of birth are from the 2015 American Community Survey

*** Data withheld due to low population and/or case counts

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 13 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	6,828	4,437	65.0%	522	13.4%	15.2%	18.8%	52.6%
Female	3,663	2,571	70.2%	582	12.8%	14.4%	14.4%	58.4%
TOTAL	10,491	7,008	66.8%	537	13.2%	14.9%	17.2%	54.7%

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	376	261	69.4%	505	10.7%	19.2%	19.5%	50.6%
Non-Hispanic	10,115	6,747	66.7%	538	13.3%	14.7%	17.1%	54.9%
American Indian/Alaska Native, only	***	***	***	***	***	***	***	***
Asian, only	17	9	52.9%	403	0.0%	22.2%	44.4%	33.3%
Black, only	8,640	5,764	66.7%	534	13.3%	15.0%	17.3%	54.4%
Native Hawaiian/Other Pacific Islander, only	***	***	***	***	***	***	***	***
White, only	867	563	64.9%	568	11.7%	13.3%	13.9%	61.1%
Multiracial/Other	585	409	69.9%	552	15.9%	13.0%	17.1%	54.0%
TOTAL	10,491	7,008	66.8%	537	13.2%	14.9%	17.2%	54.7%

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	10,004	6,682	66.8%	537	13.5%	14.8%	17.1%	54.7%
Foreign-born	205	147	71.7%	533	8.2%	17.0%	21.1%	53.7%
Africa	93	64	68.8%	500	7.8%	14.1%	28.1%	50.0%
Asia	18	10	55.6%	632	10.0%	10.0%	10.0%	70.0%
Caribbean	23	19	82.6%	559	15.8%	15.8%	10.5%	57.9%
Central America	49	38	77.6%	516	5.3%	28.9%	15.8%	50.0%
Other	22	16	72.7%	570	6.3%	6.3%	25.0%	62.5%
Unknown	282	179	63.5%	543	8.4%	17.9%	16.8%	57.0%
TOTAL	10,491	7,008	66.8%	537	13.2%	14.9%	17.2%	54.7%

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 14 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	6,828	4,063	59.5%	75.5%	11,387
Female	3,663	2,351	64.2%	71.5%	7,960
TOTAL	10,491	6,414	61.1%	74.0%	9,550

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	376	238	63.3%	74.8%	10,808
Non-Hispanic	10,115	6,176	61.1%	74.0%	9,550
American Indian/Alaska Native, only	***	***	***	***	***
Asian, only	17	8	47.1%	62.5%	38,905
Black, only	8,640	5,308	61.4%	73.4%	9,502
Native Hawaiian/Other Pacific Islander, only	***	***	***	***	***
White, only	867	490	56.5%	79.6%	15,454
Multiracial/Other	585	368	62.9%	75.3%	9,019
TOTAL	10,491	6,414	61.1%	74.0%	9,550

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	10,004	6,122	61.2%	73.8%	9,530
Foreign-born	205	119	58.0%	86.6%	13,460
Africa	93	52	55.9%	88.5%	19,000
Asia	18	5	27.8%	80.0%	50,479
Caribbean	23	14	60.9%	78.6%	31,340
Central America	49	33	67.3%	84.8%	7,762
Other	22	15	68.2%	93.3%	29,620
Unknown	282	173	61.3%	74.6%	13,758
TOTAL	10,491	6,414	61.1%	74.0%	9,550

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

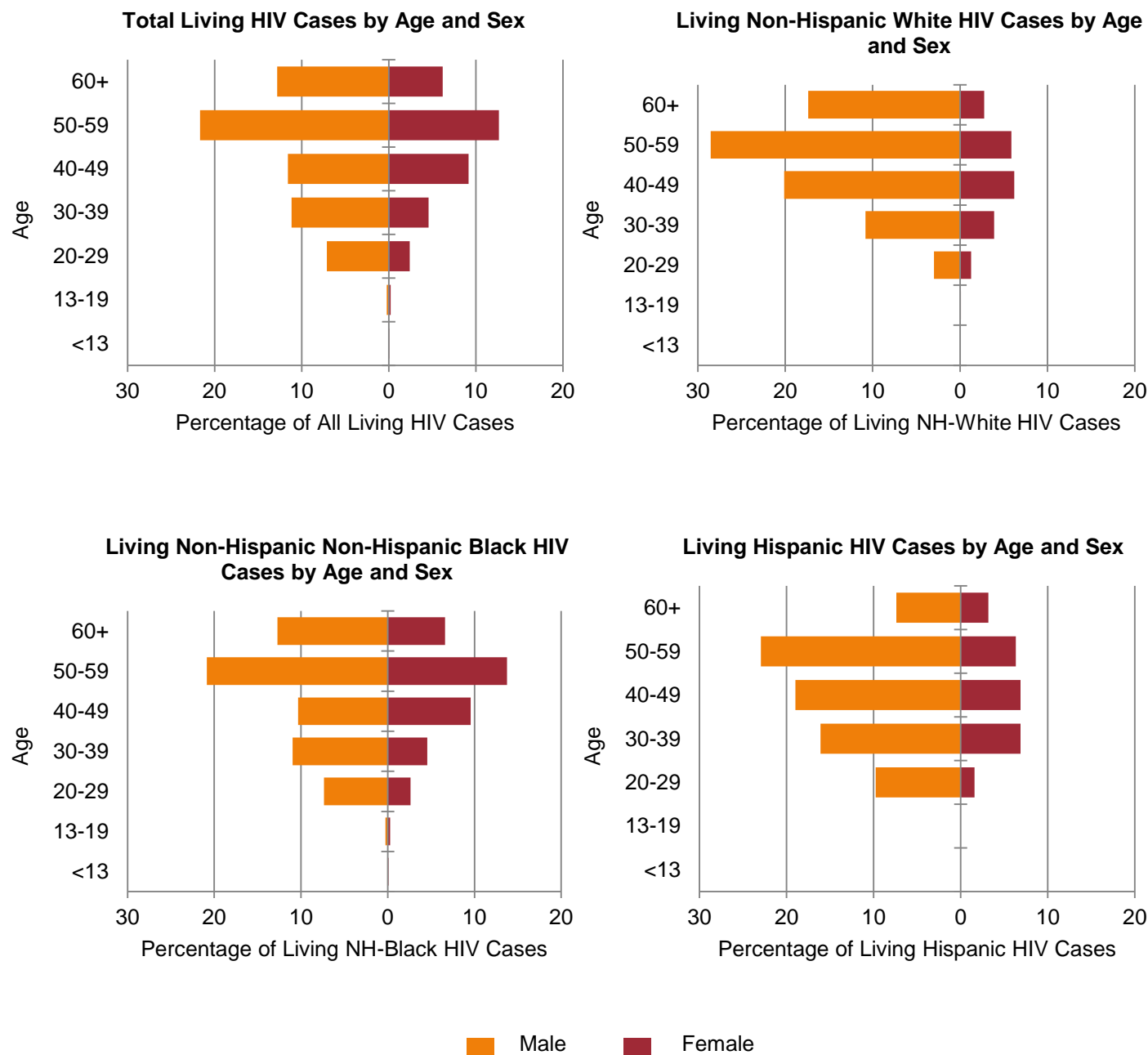
With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING MALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	4,511	32,634	8,711	2,867	48,723
	Cases	0	6	0	0	6
	Rate	0.0	18.4	0.0	0.0	12.3
	Ratio (1 in X)	--	5,439	--	--	8,120
13-19	Population	1,342	17,367	4,313	1,366	24,388
	Cases	0	24	0	0	24
	Rate	0.0	138.2	0.0	0.0	98.4
	Ratio (1 in X)	--	723	--	--	1,016
20-29	Population	2,859	29,547	16,113	3,167	51,686
	Cases	37	645	26	50	758
	Rate	1,294.2	2,183.0	161.4	1,578.8	1,466.5
	Ratio (1 in X)	77	45	619	63	68
30-39	Population	3,546	21,914	17,031	2,757	45,248
	Cases	61	963	94	70	1,188
	Rate	1,720.2	4,394.5	551.9	2,539.0	2,625.5
	Ratio (1 in X)	58	22	181	39	38
40-49	Population	2,092	19,465	9,937	1,413	32,907
	Cases	72	909	175	78	1,234
	Rate	3,441.7	4,669.9	1,761.1	5,520.2	3,750.0
	Ratio (1 in X)	29	21	56	18	26
50-59	Population	1,214	24,903	10,875	1,191	38,183
	Cases	87	1,833	248	139	2,307
	Rate	7,166.4	7,360.6	2,280.5	11,670.9	6,042.0
	Ratio (1 in X)	13	13	43	8	16
60+	Population	841	28,615	16,809	1,260	47,525
	Cases	28	1,118	151	68	1,365
	Rate	3,329.4	3,907.0	898.3	5,396.8	2,872.2
	Ratio (1 in X)	30	25	111	18	34
TOTAL MALES BY RACE/ETHNICITY	Population	16,405	174,445	83,789	14,021	288,660
	Cases	285	5,498	694	405	6,882
	Rate	1,737.3	3,151.7	828.3	2,888.5	2,384.1
	Ratio (1 in X)	57	31	120	34	41

Age on [date]: Age group of living cases on the specified date.

Total Living Male HIV Cases: Reported HIV diagnoses with Male sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2016.

Rate: Number of cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING FEMALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	4,464	31,793	8,694	2,829	47,780
	Cases	0	7	0	1	8
	Rate	0.0	22.0	0.0	35.4	16.7
	Ratio (1 in X)	--	4,541	--	2,829	5,972
13-19	Population	1,372	17,649	4,619	1,402	25,042
	Cases	0	23	1	1	25
	Rate	0.0	130.3	21.6	71.3	99.8
	Ratio (1 in X)	--	767	4,619	1,402	1,001
20-29	Population	2,721	32,822	17,522	3,742	56,807
	Cases	6	230	11	11	258
	Rate	220.5	700.7	62.8	294.0	454.2
	Ratio (1 in X)	453	142	1,592	340	220
30-39	Population	2,631	27,530	16,338	3,047	49,546
	Cases	26	399	34	29	488
	Rate	988.2	1,449.3	208.1	951.8	984.9
	Ratio (1 in X)	101	68	480	105	101
40-49	Population	1,609	23,772	9,290	1,638	36,309
	Cases	26	839	54	59	978
	Rate	1,615.9	3,529.4	581.3	3,602.0	2,693.5
	Ratio (1 in X)	61	28	172	27	37
50-59	Population	1,008	30,926	10,363	1,227	43,524
	Cases	24	1,209	51	65	1,349
	Rate	2,381.0	3,909.3	492.1	5,297.5	3,099.4
	Ratio (1 in X)	42	25	203	18	32
60+	Population	934	44,558	19,851	1,653	66,996
	Cases	12	581	24	42	659
	Rate	1,284.8	1,303.9	120.9	2,540.8	983.6
	Ratio (1 in X)	77	76	827	39	101
TOTAL FEMALES BY RACE/ETHNICITY	Population	14,739	209,050	86,677	15,538	326,004
	Cases	94	3,288	175	208	3,765
	Rate	637.8	1,572.8	201.9	1,338.7	1,154.9
	Ratio (1 in X)	156	63	495	74	86

Age on [date]: Age group of living cases on the specified date.

Total Living Female HIV Cases: Reported HIV diagnoses with Female sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

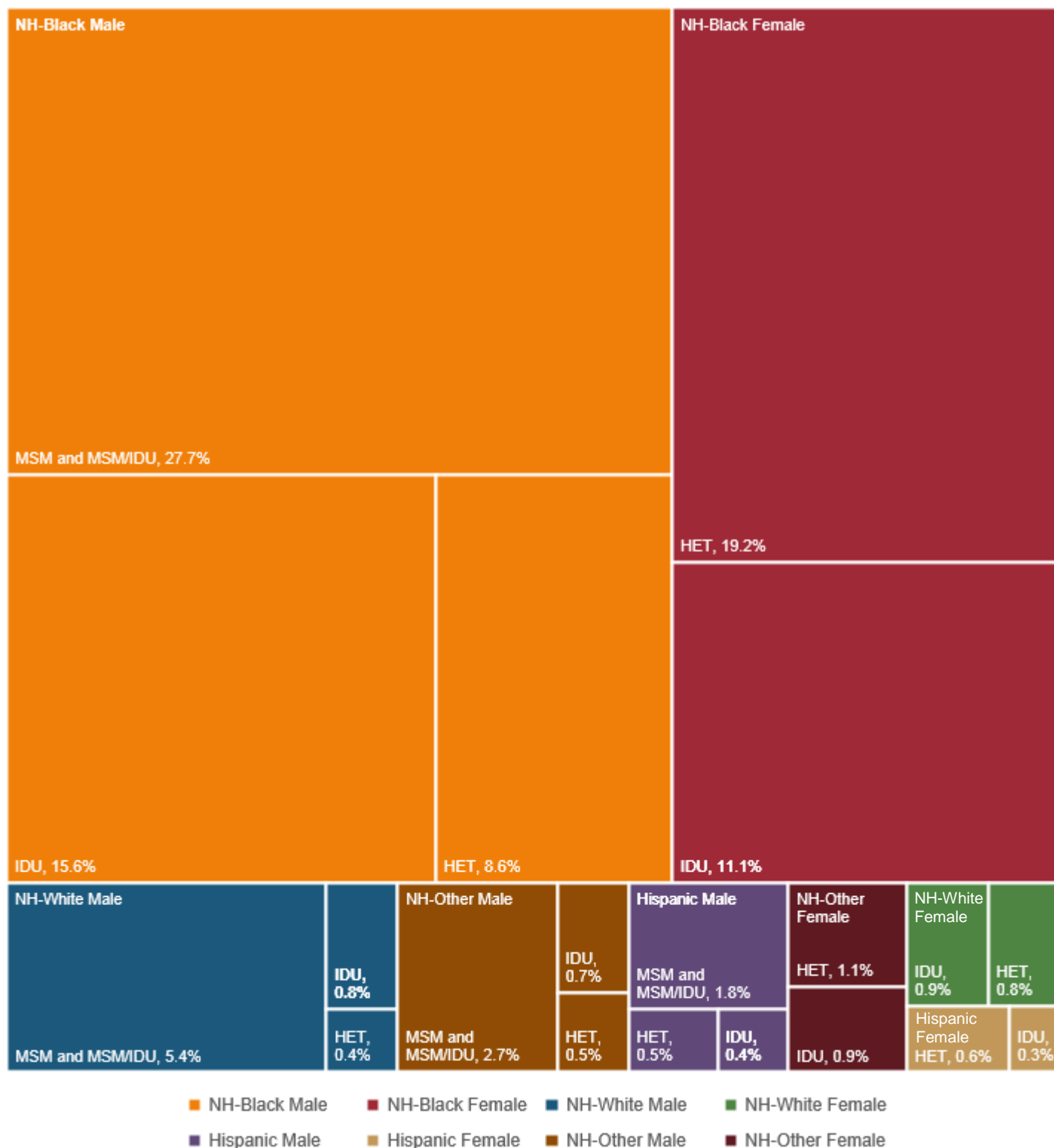
Population: Population estimate for 7/1/2016.

Rate: Number of cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016, Reported through 6/30/2017



Other exposure category not shown (<1%).

Multiple imputation was used to estimate and adjust for missing transmission category.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Table 17 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Exposure Category and Sex at Birth, Reported through 6/30/2017

EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	204	100.0%	84.3%	90.7%	22.5%	88.2%	436
Men who have Sex with Men (MSM)	125	61.3%	84.8%	92.8%	24.0%	88.8%	460
Injection Drug Users (IDU)	17	8.3%	***	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	3	1.5%	***	***	***	***	***
Heterosexual Exposure (HET)	59	28.9%	81.4%	86.4%	18.6%	86.4%	415
Other Exposure	0	0.0%	--	--	--	--	--
No Reported Exposure	74		79.7%	82.4%	23.0%	79.7%	380
TOTAL	278		83.1%	88.5%	22.7%	86.0%	415

MALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	159	100.0%	85.5%	91.8%	21.4%	89.3%	433
Men who have Sex with Men (MSM)	125	78.6%	84.8%	92.8%	24.0%	88.8%	460
Injection Drug Users (IDU)	13	8.2%	***	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	3	1.9%	***	***	***	***	***
Heterosexual Exposure (HET)	18	11.3%	83.3%	83.3%	0.0%	88.9%	414
Other Exposure	0	0.0%	--	--	--	--	--
No Reported Exposure	55		80.0%	81.8%	23.6%	78.2%	398
TOTAL	214		84.1%	89.3%	22.0%	86.4%	415

FEMALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	45	100.0%	80.0%	86.7%	26.7%	84.4%	436
Injection Drug Users (IDU)	4	8.9%	***	***	***	***	***
Heterosexual Exposure (HET)	41	91.1%	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--
No Reported Exposure	19	29.7%	78.9%	84.2%	21.1%	84.2%	316
TOTAL	64	100.0%	79.7%	85.9%	25.0%	84.4%	403

** 2016 reported HIV exposure data are preliminary.

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 18 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Exposure Category and Sex at Birth, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	9,324	100.0%	61.4%
Men who have Sex with Men (MSM)	3,050	32.7%	50.5%
Injection Drug Users (IDU)	2,946	31.6%	73.9%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	482	5.2%	71.8%
Heterosexual Exposure (HET)	2,828	30.3%	58.2%
Other Exposures	18	0.2%	66.7%
No Reported Exposure*	1,167		35.6%
TOTAL	10,491		58.5%

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	6,140	100.0%	59.9%
Men who have Sex with Men (MSM)	3,050	49.7%	50.5%
Injection Drug Users (IDU)	1,686	27.5%	73.7%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	482	7.9%	71.8%
Heterosexual Exposure (HET)	916	14.9%	59.4%
Other Exposures	6	0.1%	83.3%
No Reported Exposure	688		35.3%
TOTAL	6,828		57.4%

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	3,184	100.0%	64.2%
Injection Drug Users (IDU)	1,260	39.6%	74.3%
Heterosexual Exposure (HET)	1,912	60.1%	57.6%
Other Exposures	12	0.4%	58.3%
No Reported Exposure*	479		36.1%
TOTAL	3,663		60.6%

* Includes 54 HIV cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 19 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016 and Reported through 6/30/2017

Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
With Exposure	349	100.0%	7,628	100.0%	786	100.0%
Men who have Sex with Men (MSM)	159	45.6%	2,198	28.8%	473	60.2%
Injection Drug Users (IDU)	64	18.3%	2,557	33.5%	167	21.2%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	16	4.6%	382	5.0%	42	5.3%
Heterosexual Exposure (HET)	110	31.5%	2,475	32.4%	103	13.1%
Other Exposures	0	0.0%	16	0.2%	1	0.1%
No Reported Exposure*	27		1,012		81	
TOTAL	376		8,640		867	

Male Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
With Exposure	265	100.0%	4,869	100.0%	632	100.0%
Men who have Sex with Men (MSM)	159	60.0%	2,198	45.1%	473	74.8%
Injection Drug Users (IDU)	39	14.7%	1,498	30.8%	80	12.7%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	16	6.0%	382	7.8%	42	6.6%
Heterosexual Exposure (HET)	51	19.2%	787	16.2%	36	5.7%
Other Exposures	0	0.0%	4	0.1%	1	0.2%
No Reported Exposure	19		578		62	
TOTAL	284		5,447		694	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
With Exposure	84	100.0%	2,759	100.0%	154	100.0%
Injection Drug Users (IDU)	25	29.8%	1,059	38.4%	87	56.5%
Heterosexual Exposure (HET)	59	70.2%	1,688	61.2%	67	43.5%
Other Exposures	0	0.0%	12	0.4%	0	0.0%
No Reported Exposure*	8		434		19	
TOTAL	92		3,193		173	

* Includes 53 non-Hispanic black cases, and 1 non-Hispanic white case with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 20 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	9,324	6,413	68.8%	537	13.2%	15.0%	17.1%	54.7%
Men who have Sex with Men (MSM)	3,050	1,948	63.9%	565	9.9%	12.6%	18.7%	58.8%
Injection Drug Users (IDU)	2,946	2,130	72.3%	483	17.2%	16.9%	17.5%	48.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	482	349	72.4%	506	15.2%	16.9%	17.5%	50.4%
Heterosexual Exposure (HET)	2,828	1,973	69.8%	569	11.7%	15.0%	14.9%	58.4%
Other Exposures	18	13	72.2%	442	15.4%	23.1%	38.5%	23.1%
No Reported Exposure*	1,167	595	51.0%	552	13.4%	13.4%	18.0%	55.1%
TOTAL	10,491	7,008	66.8%	537	13.2%	14.9%	17.2%	54.7%

* Includes 54 cases with Presumed Female Heterosexual exposure

Table 21 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	9,324	5,827	62.5%	74.2%	9,671
Men who have Sex with Men (MSM)	3,050	1,861	61.0%	75.9%	12,583
Injection Drug Users (IDU)	2,946	1,824	61.9%	69.9%	9,470
Men who have Sex with Men and Inject Drugs (MSM/IDU)	482	314	65.1%	78.3%	14,201
Heterosexual Exposure (HET)	2,828	1,817	64.3%	76.0%	7,835
Other Exposures	18	11	61.1%	54.5%	360
No Reported Exposure*	1,167	587	50.3%	72.6%	9,214
TOTAL	10,491	6,414	61.1%	74.0%	9,550

* Includes 54 cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

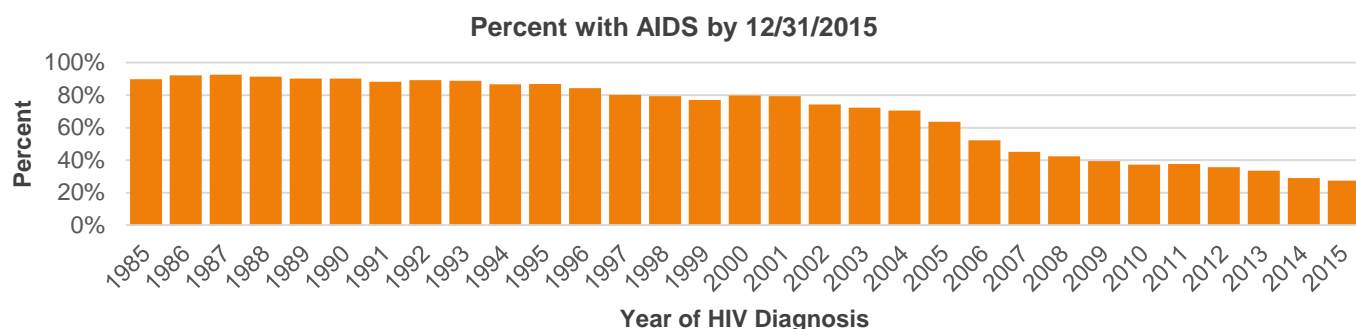
Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2015, Reported through 6/30/2017

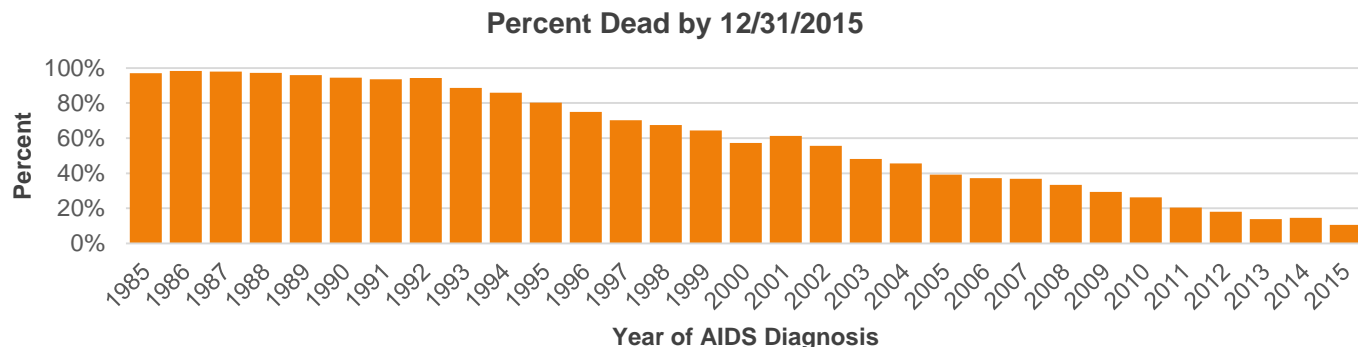
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2015 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2016 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2016, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	159	153	96.2%	7.1	33.3%	33.3%	37.1%	67.9%
1985	316	284	89.9%	6.7	23.4%	25.6%	32.9%	74.4%
1986	443	408	92.1%	5.7	32.1%	33.4%	45.6%	77.9%
1987	574	531	92.5%	4.7	32.8%	35.9%	54.5%	82.9%
1988	892	815	91.4%	3.8	37.2%	40.9%	63.7%	85.5%
1989	1,157	1,044	90.2%	3.6	37.0%	42.7%	67.7%	83.1%
1990	1,207	1,089	90.2%	3.1	43.9%	50.4%	72.7%	84.5%
1991	1,354	1,196	88.3%	2.7	45.9%	55.6%	73.2%	83.4%
1992	1,347	1,201	89.2%	2.6	50.0%	58.1%	74.7%	83.2%
1993	1,250	1,111	88.9%	2.2	53.8%	62.2%	76.4%	84.6%
1994	1,137	986	86.7%	2.3	53.6%	61.1%	74.1%	81.8%
1995	1,071	931	86.9%	2.2	57.7%	63.0%	72.4%	82.3%
1996	975	823	84.4%	2.0	57.6%	62.7%	70.5%	80.2%
1997	1,027	823	80.1%	2.1	54.9%	60.2%	68.1%	75.6%
1998	998	791	79.3%	2.1	54.4%	58.3%	66.4%	74.5%
1999	914	704	77.0%	1.7	55.8%	60.7%	67.9%	74.4%
2000	853	680	79.7%	1.7	56.0%	60.4%	69.6%	76.8%
2001	932	739	79.3%	1.6	58.5%	61.7%	70.5%	76.1%
2002	1,074	798	74.3%	1.8	53.4%	56.9%	64.3%	71.1%
2003	925	669	72.3%	1.5	53.9%	57.3%	63.1%	70.1%
2004	921	650	70.6%	1.6	50.5%	54.5%	61.2%	68.6%
2005	974	619	63.6%	1.5	45.9%	49.1%	56.0%	62.8%
2006	987	516	52.3%	1.8	34.2%	36.5%	44.7%	51.9%
2007	868	392	45.2%	2.0	26.8%	30.1%	38.2%	--
2008	804	340	42.3%	1.8	25.1%	29.4%	37.2%	--
2009	617	244	39.5%	1.7	24.8%	27.9%	35.5%	--
2010	611	228	37.3%	1.3	25.0%	28.0%	34.7%	--
2011	432	163	37.7%	1.0	26.6%	30.8%	36.1%	--
2012	443	158	35.7%	0.8	28.2%	30.0%	--	--
2013	378	127	33.6%	0.6	27.5%	29.4%	--	--
2014	316	92	29.1%	0.3	26.3%	28.8%	--	--
2015	328	90	27.4%	0.3	24.4%	--	--	--
TOTAL	26,284	19,395	73.8%	2.5	44.6%	49.4%	60.5%	69.9%

Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2015, Reported through 6/30/2017

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/15 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2016 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2016, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017.



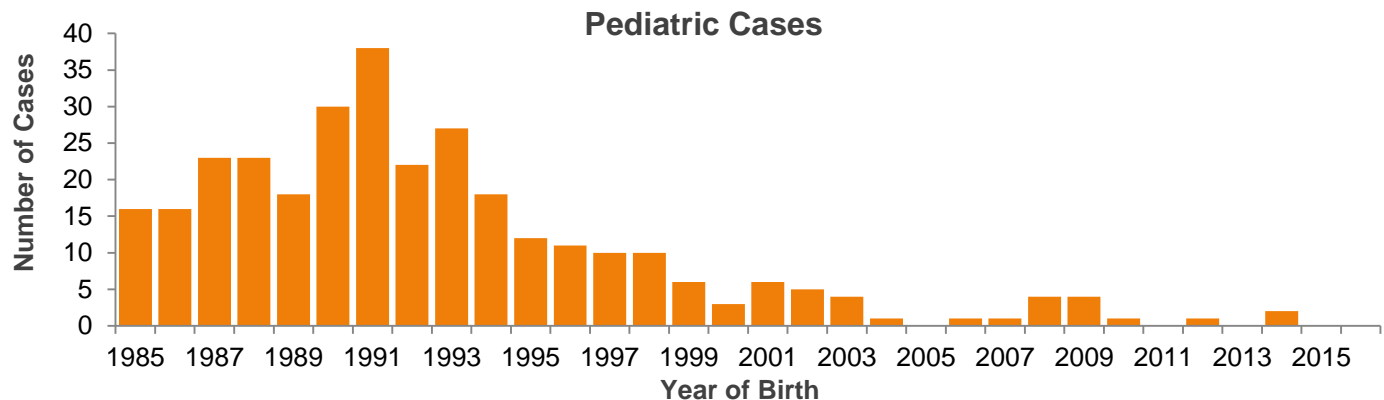
YEAR OF AIDS DIAGNOSIS	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	57	53	93.0%	2.6	52.6%	33.3%	19.3%	15.8%
1985	69	67	97.1%	2.1	43.5%	27.5%	8.7%	7.2%
1986	129	127	98.4%	2.5	48.8%	30.2%	14.7%	10.1%
1987	199	195	98.0%	2.2	60.3%	34.2%	12.1%	5.0%
1988	338	329	97.3%	2.6	60.9%	40.2%	14.2%	7.4%
1989	441	423	95.9%	2.5	60.8%	38.8%	16.1%	8.4%
1990	633	598	94.5%	3.0	64.6%	45.7%	20.5%	12.0%
1991	782	732	93.6%	2.9	67.5%	46.4%	18.5%	12.4%
1992	1,091	1,029	94.3%	3.1	68.9%	48.8%	20.5%	13.8%
1993	1,249	1,106	88.6%	3.8	77.5%	56.1%	33.1%	20.6%
1994	1,152	991	86.0%	3.9	76.8%	57.7%	37.0%	22.8%
1995	1,122	901	80.3%	4.7	78.3%	65.5%	47.4%	32.7%
1996	1,061	796	75.0%	5.2	81.5%	74.1%	56.1%	39.3%
1997	937	659	70.3%	5.3	85.1%	76.3%	59.4%	42.5%
1998	843	569	67.5%	5.4	87.1%	79.8%	62.3%	44.8%
1999	809	521	64.4%	5.0	86.0%	78.6%	61.2%	46.6%
2000	717	410	57.2%	4.6	85.2%	79.4%	63.9%	50.5%
2001	808	495	61.3%	4.4	84.7%	76.1%	60.8%	47.3%
2002	809	450	55.6%	4.8	87.1%	80.3%	67.5%	53.5%
2003	735	354	48.2%	3.6	83.1%	77.4%	65.7%	56.3%
2004	735	335	45.6%	3.8	86.1%	80.5%	69.5%	58.0%
2005	696	272	39.1%	3.8	88.5%	83.5%	74.0%	63.6%
2006	595	221	37.1%	3.3	88.2%	82.9%	73.3%	63.2%
2007	437	161	36.8%	3.2	88.1%	84.4%	73.7%	--
2008	421	140	33.3%	2.8	89.3%	83.8%	74.1%	--
2009	357	105	29.4%	2.7	91.3%	86.3%	76.2%	--
2010	386	101	26.2%	2.5	89.6%	86.8%	79.3%	--
2011	311	63	20.3%	2.1	93.6%	89.7%	81.4%	--
2012	332	60	18.1%	1.4	89.8%	88.3%	--	--
2013	296	41	13.9%	1.4	93.9%	90.2%	--	--
2014	206	30	14.6%	0.6	89.3%	85.9%	--	--
2015*	219	23	10.5%	0.4	90.4%	--	--	--
TOTAL	18,972	12,357	65.1%	3.9	80.6%	69.5%	52.8%	41.9%

*2015 AIDS deaths are preliminary.

Section X – Pediatric Cases

Figure 13 – Trends in Pediatric HIV Cases, 1985-2016, Reported through 6/30/2017

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2016, as Reported by Name through 6/30/2017



YEAR	PEDIATRIC REPORTED HIV DIAGNOSES			PEDIATRIC TOTAL LIVING HIV CASES	
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on 12/31 of Each Year
<1985	15	1	0	0	--
1985	16	6	4	1	9
1986	16	6	5	3	12
1987	23	12	7	5	21
1988	23	16	11	2	35
1989	18	21	14	3	54
1990	30	27	14	3	79
1991	38	27	20	8	100
1992	22	34	20	9	127
1993	27	36	22	10	152
1994	18	21	15	10	162
1995	12	15	12	9	169
1996	11	15	8	13	172
1997	10	7	4	4	173
1998	10	16	6	3	187
1999	6	14	6	4	196
2000	3	6	2	0	202
2001	6	8	7	3	206
2002	5	2	3	3	205
2003	4	2	0	2	206
2004	1	2	2	3	205
2005	0	0	1	0	205
2006	1	2	2	1	205
2007	1	16	4	3	218
2008	4	6	5	3	222
2009	4	3	1	0	225
2010	1	1	4	3	223
2011	0	1	2	2	223
2012	1	2	1	2	223
2013	0	0	9	0	221
2014	2	2	3	0	224
2015	0	0	1	2	221
2016	0	1	6	1	217
TOTAL	328	328	221	115	--

Table 22 – Pediatric HIV Total Living HIV Cases, Diagnosed in Maryland, Alive on 12/31/2016, by Jurisdiction, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
21201	6	2.8%
21202	10	4.6%
21205	11	5.1%
21206	13	6.0%
21207	4	1.8%
21209	1	0.5%
21211	2	0.9%
21212	3	1.4%
21213	22	10.1%
21214	4	1.8%
21215	28	12.9%
21216	11	5.1%
21217	25	11.5%
21218	21	9.7%
21223	20	9.2%
21224	10	4.6%
21225	6	2.8%
21229	5	2.3%
21230	2	0.9%
21231	5	2.3%
21234	1	0.5%
21239	7	3.2%
TOTAL	217	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 23 – Pediatric Total Living HIV Cases, Diagnosed in Maryland, by Sex at Birth and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Male	93	42.9%
Female	124	57.1%
TOTAL	217	100.0%

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Hispanic	4	1.8%
Non-Hispanic	213	98.2%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	194	89.4%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	10	4.6%
Multiracial/Other	9	4.1%
TOTAL	217	100.0%

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2016.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for 7/1/2016.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 test result performed in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.